



47th Annual ENVIRONMENTAL SHOW OF THE SOUTH May 16-18, 2018

CHATTANOOGA

Chattanooga Convention Center
1150 Carter Street
Chattanooga, TN 37402

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TN

Department of
**Environment &
Conservation**

*Environmental Law Session
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Welcome to the Environmental Show of the South



Welcome to the largest and most comprehensive environmental conference and tradeshow in the region: the Environmental Show of the South! We're glad you could join us back in Chattanooga! You're in good company, and we've got lots to keep you busy. Download our mobile app to help keep track of all the presentation options and which ones you might like to check out. Scan the QR code at Registration for easy access on Google Play or the App Store.

At a Glance

Plenary Sessions

Attendees and booth workers alike attend the Opening Session in the Banquet Rooms on Wednesday morning to officially kick off the event. Outside of plenary events like this, the Exhibit Hall will be the main gathering point, hosting breakfast, breaks, and the Welcome Reception Wednesday evening. A special off-site reception will be held Thursday Night at the Tennessee Aquarium.

Breakout Sessions

Attendees may consult the At-A-Glance session schedules on pages 16-19 to decide from seven or eight options during each of the three rounds of breakout sessions Wednesday afternoon and throughout the day Thursday. All breaks are synchronized, so you'll always be able to meet back up with your colleagues to compare notes! Download our app to learn more about each presenter.

Exhibit Hall

With over 160 exhibitors—check out their listings at the back of this program—the Exhibit Hall will host all technical session breaks, a Welcome Reception Wednesday evening, and the Ice Cream Social on Thursday afternoon. Thanks to our generous sponsors, you can enter to win several great prizes, including a 65" 4k HDTV!

Sponsors

A special thanks to our sponsors:



Schedule of Events

Wednesday, May 16, 2018

7:30 AM	Registration opens; Breakfast in the Exhibit Hall
9:00 AM	Opening session begins
11:30 AM	Lunch is served in Banquet Rooms
1:00 PM	First round of breakout sessions begin
2:30 PM	Networking break in the Exhibit Hall
4:30 PM	Breakout sessions close
5:00 PM	Welcome Reception held in the Exhibit Hall

Thursday, May 17, 2018

7:30 AM	Breakfast available in the Exhibit Hall
8:00 AM	Second round of breakout sessions begin
9:30 AM	Networking break in the Exhibit Hall
11:30 AM	Lunch is served in Banquet Rooms
11:45 AM	Lunchtime Plenary session begins
1:00 PM	Third round of breakout sessions begin
2:30 PM	Ice Cream Social held in the Exhibit Hall
4:45 PM	Breakout sessions conclude
7:00 PM	Networking Reception at the Tennessee Aquarium

Friday, May 18, 2018

7:30 a.m.	Breakfast available; Feedback forms due
8:15 a.m.	Closing session begins
11:00 a.m.	Environmental Show of the South concludes

About TDEC

The Tennessee Department of Environment and Conservation (TDEC) exists to enhance the quality of life for citizens of Tennessee and to be stewards of our natural environment. TDEC is the chief environmental and natural resource regulatory agency in Tennessee and arranges the Environmental Show of the South each year to provide high-quality, low-cost environmental training as well as updates on government/industry developments and trends.

Technical sessions are planned and moderated by TDEC staff, and six TDEC divisions will present updates on recent program developments during the Lunchtime Session Thursday. Additionally, technical staff will be on hand at the TDEC Regulatory booth to answer your questions one on one. Be sure to visit them and pick up your complimentary conference tote bag!



9:00 AM-9:15 AM

Opening Remarks

Patrick J. Flood, PE, Director, TDEC - Division of Solid Waste Management

9:15 AM-9:35 AM

Welcome to the 47th Annual Environmental Show of the South

Shari Meghreblian, PhD, Commissioner, TN Department of Environment & Conservation

9:35 AM-10:20 AM

Keynote Address: EPA Updates

Trey Glenn, Regional Administrator, U.S. Environmental Protection Agency

10:20 AM-10:50 AM

Securing the Next Generation of Environmental Leaders

Dania Rodriguez, Executive Director, ASTSWMO

10:50 AM-11:00 AM

Recycler of the Year Awards

Lincoln Young, Tennessee Recycling Coalition

11:00 AM-11:15 AM



Special Presentation of the Governor's Environmental Stewardship Award, Materials Management Category
Commissioner Meghreblian

11:15 AM-11:30 AM

Morning Announcements

Patrick J. Flood, PE

11:30 AM-1:00 PM

Lunch Served in Banquet Rooms**Shari Meghreblian, PhD**

Shari Meghreblian joined the Tennessee Department of Environment & Conservation to oversee the environmental regulatory programs for the protection of Tennessee's air, land and water, and was named Commissioner of the department effective just over two weeks ago.

Recognized for her ability to provide strategic insight and analyze

processes and procedures to streamline business practices, Dr. Meghreblian has been appointed to several boards and councils supporting three different departments of state government.

Shari has more than 20 years of combined experience in private sector manufacturing and environmental management systems. She joined TDEC from General Motors' plant in Spring Hill, TN, where she served as the environmental operations manager since 2005.

She holds a PhD in Environmental Management and a master's degree in Engineering from Vanderbilt University, and a bachelor of science in Marketing/Economics from Western Kentucky University.

Keynote Speaker: Trey Glenn

Trey Glenn leads the EPA's environmental protection efforts in the southeastern states, bringing 23 years of environmental and regulatory experience to this role.

Serving the largest EPA region with 63 million people, he champions protection of our ecosystems and natural resources, encourages partnerships with our states and helps EPA achieve its mission.

Previously, Mr. Glenn served as director of the Alabama Department of Environmental Management (ADEM) from 2005-2009. In this position, he was tasked with ensuring a safe, healthy, and productive environment for all Alabama residents. He also served as division director for the Alabama Office of Water Resources from 2001-2005, where he was responsible for leading day-to-day operations on coordination and management of Alabama's water resources. Most recently, he worked as an independent engineer consultant and business owner focused on environmental issues.

Mr. Glenn is a graduate of Auburn University with a bachelor of science degree in civil engineering. He received his MBA from the University of Alabama at Birmingham. Mr. Glenn is also a professional engineer. He is married with four children, and they reside in Birmingham, Alabama.

Dania Rodriguez

Dania Rodriguez is the Executive Director of the Association of State and Territorial Solid Waste Management Officials (ASTSWMO) in Washington, DC. She has 24 years of demonstrated national environmental experience with expertise in the field of technical, financial and policy development and a comprehensive knowledge of State and Territorial programs.

For a number of years, she has served as the liaison between the States and numerous Federal Agencies such as EPA and DOD on important policy issues. As the Executive Director she runs the day-to-day operations of ASTSWMO. This includes managing the Association's Budget, Cooperative Agreements, the ASTSWMO Staff, and providing support to the ASTSWMO Board of Directors.

Prior to her career at ASTSWMO, Dania worked for the American Petroleum Institute (API). Dania received a B.A. in Political Science from Hood College in Frederick, Maryland, and an Executive Certificate in Nonprofit Management from the Georgetown University, McCourt School of Public Policy.

Wednesday AM

Wednesday PM

Thursday AM

Thursday PM

Friday

Exhibitors

Wednesday AM

1:00 PM-1:10 PM

Financial Management Panel

Moderator Seth Bengé, TDEC, opens the session

1:10 PM-1:35 PM

Profit/Loss Tracking for Small Recyclers

Is your recycling program surviving or thriving? A simple spreadsheet can help answer that question for you, your local officials, and for grants.

Doug Giles, Marshall County Solid Waste

1:35 PM-2:00 PM

EPA's Cost-Benefit Analysis Tool

Marty Seaman, RRS

Wednesday PM

2:00 PM-2:25 PM

Cost Benefiting County Recycling Programs

Introduces a record-keeping tool for County Solid Waste Programs to use in tracking recycling costs, revenues, and market changes.

Kim Raia, University of Tennessee CTAS

2:25 PM-2:30 PM

Panel Conclusion

2:30 PM-3:00 PM

Refreshments in the Exhibit Hall - Sponsored by Jim's Tank Service

Thursday AM

3:00 PM-3:05 PM

Solid Waste Planning Panel

Moderator Ashby Barnes, TDEC, opens the discussion

3:05 PM-3:30 PM

Davidson County Long-Term Zero Waste Master Plan

This presentation will include the process, findings, recommendations and potential next steps from the Metro Nashville Davidson County Zero Waste Master Planning.

Kelly Tipler, Metro Nashville Public Works

3:30 PM-3:55 PM

Using Technology for Waste Diversion & Community Outreach

With a grant from the Recycling Partnership, the City of Atlanta was able to significantly reduce contamination. Learn how technology helped implement this successful pilot.

Michelle Wiseman, City of Atlanta / Mayor's Office of Resilience

Thursday PM

3:55 PM-4:20 PM

Louisville's Solid Waste Study Efforts, Future is Now

A description of Louisville Metro's journey completing its first full integrated solid waste management study.

Pete Flood, Louisville Metro Department of Public Work

4:20 PM-4:30 PM

Session Close

5:00 PM-6:30 PM

Welcome Reception hosted by Republic Services in the Exhibit Hall

Friday



Exhibitors



Mobile App

Download our mobile app for an interactive view of our program. The app includes extra details like speaker bios and allows you to favorite presentations you might like to attend. Mobile app developed by BDY Environmental with support from Burr & Forman.

BURR & FORMAN LLP
results matter

BDY NATURAL SCIENCES CONSULTANTS
1000 Broadway, Suite 2000, New York, NY 10003-3803

1:00 PM-1:10 PM	Moderator Brenda Carr, TDEC, opens the session	Wednesday AM
1:10 PM-1:35 PM	New TSCA Active/Inactive Chemical Lists: Are Your Chemicals Banned? Deadlines on 2018 to file Form A and Form B can limit or restrict your company's ability to import, manufacture, or process chemical substances. This course will help. Ethan R. Ware , Williams Mullen	
1:35 PM-2:00 PM	Lead Poisoning: <i>All in the Family</i> Occupational lead poisoning remains a major threat for many American workers. Beyond the individual employee, however, the implications for the health of family members are equally critical—but less understood. Join us for environmental education via pop culture nostalgia. Bonnie Hinds , University of Tennessee Extension	Wednesday PM
2:00 PM-2:30 PM	The Environmental Injustice of Lead Poisoning in Shelby County Shelby County Health Department's lead elimination efforts: bringing key stakeholders/partners together to maximize efforts in high risk communities. Elizabeth Shockley , Shelby County Health Department	
2:30 PM-3:00 PM	Refreshments in the Exhibit Hall - Sponsored by Jim's Tank Service	
3:00 PM-3:25 PM	Generator Must-Knows for Shipping Hazardous Waste Hazardous waste shipments are a multi-jurisdictional challenge for EHS managers. This program will benefit anyone with direct management responsibilities for hazardous waste. Scott C. Dunsmore, CET , Lion Technology Inc.	
3:25 PM-3:55 PM	Comprehensive Housing Inventions: A New Way Forward for Healthy & Efficient Communities This presentation will cover the GHHI model for coordinating partners within communities from multiple sectors to reduce environmental hazards in housing. Catherine Lee, AICP , Green & Healthy Homes Initiative	Thursday AM
3:55 PM-4:20 PM	Developing Efficient Systems for Mobile Inspection and Permitting Robert Lee will bring his experience of developing software systems and talking with inspectors in field positions, to offer encouragement and strategy for Environmental Safety. Robert E Lee Jr , Codepal	
4:20 PM-4:30 PM	Session Close	Thursday PM
5:00 PM-6:30 PM	Welcome Reception hosted by Republic Services in the Exhibit Hall	

1:00 PM-1:10 PM	Moderator Brooke Barrett, TDEC, opens the session	Friday
1:10 PM-1:50 PM	Reflections on the CAAA of 1990 & A Tale of Two Cities A look at what worked well and what could have worked better out of the CAAA of 1990. Chattanooga's story: from the most polluted in the nation to one of the cleanest. Robert H. Colby , Chattanooga-Hamilton County Air Pollution Control Bureau	
1:50 PM-2:30 PM	EPA Region 4 Air Quality Initiatives Beverly Banister , EPA Region 4 Air, Pesticides, and Toxics Management Division	Exhibitors
2:30 PM-3:00 PM	Refreshments in the Exhibit Hall - Sponsored by Jim's Tank Service	
3:00 PM-3:40 PM	Air Quality Health Benefits in Tennessee This presentation provides an overview of respiratory health benefits resulting from historic air quality improvements in Tennessee. Michelle Oakes, PhD , TDEC - Division of Air Pollution Control	
3:40 PM-4:20 PM	Tennessee and the Volkswagen Diesel Settlement An overview of the VW Settlement and information on TDEC's anticipated approach and efforts to date regarding the Beneficiary Mitigation Planning process and stakeholder engagement. Molly Cripps , TDEC - Office of Energy Programs	
4:20 PM-4:30 PM	Session Close	
5:00 PM-6:30 PM	Welcome Reception hosted by Republic Services in the Exhibit Hall	

Wednesday AM

1:00 PM-1:10 PM

Moderator Jennifer McClellan, TDEC, opens the session

1:10 PM-1:50 PM

Emerging Contaminants: Poly- & Perfluoroalkyl Substances (PFAS)

An overview of the history of PFAS use, exposure and toxicity, and regulatory response.

Kevin Long, Ramboll

1:50 PM-2:30 PM

Keeping Receiving Waters Safe: Removing PFCs

An overview of treatment technologies and examples for removing PFCs from wastewater, stormwater and drinking water.

Janet Egli, PE, Ramboll

Wednesday PM

2:30 PM-3:00 PM

Refreshments in the Exhibit Hall - Sponsored by Jim's Tank Service

3:00 PM-3:40 PM

North Carolina DEQ Update on PFOS / PFOA / GenX

An update on the ongoing investigation of PFAS compounds in the environment and private drinking water wells around the Fayetteville, NC, Chemours facility

Julie S. Woosley, NC Department of Environmental Quality

3:40 PM-4:20 PM

Per- and Polyfluoroalkyl Substances (PFAS) in the Environment

This presentation will give an overview of PFAS in the environment, where we might expect to find them, and a current summary of work being done under various statutes

Aaryn Jones, U.S. EPA Region 4

Thursday AM

4:20 PM-4:30 PM

Session Close

5:00 PM-6:30 PM

Welcome Reception hosted by Republic Services in the Exhibit Hall

Thursday PM

1:00 PM-1:10 PM

Moderator Cindy Storm, TDEC, opens the session

1:10 PM-1:30 PM

Division of Underground Storage Tanks Regulatory Changes Update

Update on the UST regulatory changes that will become effective this Fall to ensure that TN is no less stringent than the federal rules.

Rhonda Key, TDEC - Division of Underground Storage Tanks

1:30 PM-2:00 PM

Managing Rebound by Combining Persulfate, Ferrate Generation and Enhanced Bioremediation for Safer, More Effective Remedial Actions**Will Moody**, Provectus Environmental Products

2:00 PM-2:30 PM

Restoration & Reuse of Abandoned Facilities

The Division of Underground Storage Tanks (UST) initiated the Abandoned Facility Project in 2012 to address petroleum UST facilities that were deemed abandoned.

Geina Skinner, TDEC - Division of Underground Storage Tanks

Friday

2:30 PM-3:00 PM

Refreshments in the Exhibit Hall - Sponsored by Jim's Tank Service

3:00 PM-3:40 PM

Groundwater High-Resolution Site Characterization (HRSC)

An overview defining and explaining the need for, and benefits of, Groundwater High-Resolution Site Characterization (HRSC).

Edward J. Gilbert, CPG, U.S. EPA, Office of Superfund Remediation

Exhibitors

3:40 PM-4:20 PM

UST Case Study Using Innovative Technologies

IAtM's Advanced Data Analysis (ADA) solves the mystery of why two challenging sites have not met remedial goals using existing data and innovative analysis techniques.

William Benni, Improved Analysis through Modeling (IAtM)

4:20 PM-4:30 PM

Session Close

5:00 PM-6:30 PM

Welcome Reception hosted by Republic Services in the Exhibit Hall

1:00 PM-1:10 PM

Moderator Harry McCann, TDEC, opens the session

1:10 PM-2:00 PM

Landfill Stability Part 2: Visual Indicators and Corrective Measures

Overview of how to identify landfill instability issues and when operators should be concerned, as well as what corrective measures they may need to take.

Jeffrey J. Breedlove, Promus Engineering, LLC

Brian Wolf, PE, Civil & Environmental Consultants, Inc.

2:00 PM-2:30 PM

Challenges of Early Closure of Landfills

This discussion involves the operational and design challenges of when a landfill is capped prior to reaching final design grades.

Wm. Christopher Murray PE, PLS, PP, Civil & Environmental Consultants, Inc.

2:30 PM-3:00 PM

Refreshments in the Exhibit Hall - Sponsored by Jim's Tank Service

3:00 PM-3:30 PM

Win - Win by Reuse of the Customer's Special Waste

Putting together a Win-Win plan for a customer's disposal needs of their special waste and at the same time helping to solve an on going issue at our site.

Steve Keylor, Waste Connections - Meadowbranch Landfill

3:30 PM-4:00 PM

Tier 2 Testing for MSW Landfill Emission Guidelines and NSPS

A summary of the Tier 2 testing protocols for determining if a landfill must comply with the Emission Guidelines (EG) and New Source Performance Standards (NSPS).

Matt Lamb, Smith Gardner, Inc.

4:00 PM-4:20 PM

DSWM Elevates Quality and Consistency with Training

TDEC will present new training and outreach programs aimed at elevating our quality and consistency in inspections and materials sampling and analysis.

Patrick Mulligan, PG, TDEC - Division of Solid Waste Management

4:20 PM-4:30 PM

Session Close

5:00 PM-6:30 PM

Welcome Reception hosted by Republic Services in the Exhibit Hall

Wednesday AM

Wednesday PM

Thursday AM

Thursday PM

Friday

Exhibitors

Wednesday AM

1:00 PM-1:10 PM

Moderator Robert G. O'Dette, TDEC, opens the session

1:10 PM-1:50 PM

Impacts of Invasive Aquatic Plants on Lake Ecosystems

Learn how invasive aquatic plants are threatening the ecological health and recreational use of lakes throughout the region. Should they be controlled? If so, how? If not, what can we expect?
Timothy Joseph, PhD, Watts Bar Ecology and Fishery Council

1:50 PM-2:30 PM

Navigating the New Jersey and Washington State Stormwater Programs as Models for Approving Manufactured Treatment Devices

The NJ and WA stormwater programs have significant and subtle processes which can serve as models for local agencies to approve proprietary treatment devices.
Mark Miller, AquaShield, Inc.

Wednesday PM

2:30 PM-3:00 PM

Refreshments in the Exhibit Hall - Sponsored by Jim's Tank Service**Moderator George C. Garden, TDEC, resumes the session**

3:00 PM-3:40 PM

Evaluation of Municipal Sewerage Systems in Tennessee

The paper provides an overview of the statewide infiltration and inflow (I/I) problem relative to NPDES permit compliance and evaluation metrics used for moratoriums.

Robert G. O'Dette, TDEC - Division of Water Resources**George C. Garden, PE, BCEE**, TDEC - Division of Water Resources

Thursday AM

3:40 PM-4:20 PM

Sustainability in Green Landscaping & Tried and True Plant Choices for Bioswales in TN

When green landscaping projects fail, we often point fingers at the plants. We'll discuss other factors that make or break a planting and provide details of plant species that thrive.

Janie J. Becker, Stantec Consulting

4:20 PM-4:30 PM

Session Close

5:00 PM-6:30 PM

Welcome Reception hosted by Republic Services in the Exhibit Hall

Thursday PM

Wednesday, May 16

Environmental Law

Room 18-19

1:00 PM-1:10 PM

Moderator James C. Wright, Butler, Vines & Babb, opens the session

1:10 PM-2:30 PM

Ethics Part I

Discussion of new ethics opinions, Board Resources for Lawyers, and the importance of Attorney wellness.

Laura Chastain, Board of Professional Responsibility

Friday

2:30 PM-3:00 PM

Refreshments in the Exhibit Hall - Sponsored by Jim's Tank Service

3:00 PM-4:20 PM

Ethics in Litigation and Appeals

Ethical considerations and professionalism in appellate practice.

William C. Koch, Jr., Nashville School of Law

4:20 PM-4:30 PM

Session Close

5:00 PM-6:30 PM

Welcome Reception hosted by Republic Services in the Exhibit Hall

Exhibitors



8:00 AM-8:10 AM

Organics Panel**Moderator Robert Wadley, TDEC, opens the session**

8:10 AM-8:35 AM

Taking On Large Organics Collection Projects

Discussion of the obstacles, opportunities, and initiatives involved in the effort to implement facility-wide organics collection and achieve zero-waste to make the Hartsfield-Jackson Atlanta International Airport the greenest airport in the world.

Liza Milagro, Hartsfield-Jackson Airport

8:35 AM-9:00 AM

Surplus Food Donations – “An Alternative to Throwing Away Food”

A discussion on the environmental, social, and financial benefits of donating prepared surplus food. The process, misconceptions, and technology of prepared food donations will be addressed.

Jim Larson, Food Donation Connection

9:00 AM-9:25 AM

Food Waste Management and Composting on a College Campus

College campuses can serve as a model for industry best management practices. Come learn how UTK feeds people, microorganisms, and the soil with leftover food.

Jay Price, MS, MBA, CCOM™, University of Tennessee, Knoxville

9:25 AM-9:30 AM

Panel Conclusion

9:30 AM-10:00 AM

Refreshments in the Exhibit Hall - Sponsored by tarpARMOR

10:00 AM-10:05 AM

Grants Panel**Moderator Lynn Tutor, TDEC, opens the discussion**

10:05 AM-10:30 AM

Audit Preparedness for Grant Contracts

Being audit ready and the documentation used to verify compliance.

Lawanda M. Johnson, TDEC - Division of Internal Audit

10:30 AM-10:55 AM

North Carolina DEQ Recycling and Materials Management Grant Programs

NC will present on the long-standing recycling and materials management grant programs designed to increase recycling capacity and support economic development in the state.

Wendy Worley, NC Department of Environmental Quality

10:55 AM-11:20 AM

EPA Region 4 Grant Program

Brief overview of the EPA Region 4 grant program and options available for local governments for solid waste and material recovery management.

Delores Rodgers-Smith, U.S. EPA Region 4**Larry Christley, RSM**, TDEC - Division of Solid Waste Management

11:20 AM-11:30 AM

Session Close

11:30 AM-1:00 PM

Networking Break - Lunch Served in Banquet Rooms

Wednesday AM

Wednesday PM

Thursday AM

Thursday PM

Friday

Exhibitors

Wednesday AM

8:00 AM-8:10 AM

Moderator Alison Hensley, TDEC, opens the session

8:10 AM-8:35 AM

Horizontal Wells for Remediation of Chlorinated Solvent Sites

Horizontal wells installed with directional drilling facilitate remediation of areas difficult to access. Three case studies will be presented discussing horizontal well remediation.

Kyle J. Carlton, PG, Directional Technologies, Inc.

8:35 AM-9:00 AM

Using EPA Brownfield Grants as a Tool for Community Revitalization

We will discuss how communities can use EPA Brownfield Grants with a toolbox of other community revitalization tools including State Brownfield Programs for a significant positive impact to foster community revitalization.

Amanda M. Herrit, MS, Terracon Consultants, Inc.

Dallas Whitmill, Terracon Consultants, Inc

Wednesday PM

9:00 AM-9:30 AM

Choosing the Correct Remediation Tool from the Remediation Toolbox

This presentation will provide insight into the technical aspects of assessing remedial processes to determine the best alternative for a specific site.

Wade Meese, Innovative Environmental Technologies, Inc.

9:30 AM-10:00 AM

Refreshments in the Exhibit Hall - Sponsored by tarpARMOR

10:00 AM-10:30 AM

Reasons and Technology for Controlling Excessive Methanogenesis during Remedial Actions

Case studies and remedial alternatives on how proactive control of Archaea proliferation during ERD/ISCR remedial actions can improve efficacy and help control potential negative effects of excessive methane production.

Jim Mueller, Provectus Environmental Products, Inc.

Thursday AM

10:30 AM-10:55 AM

Controlled Release Environmental Reactants - A More Efficient Approach to In Situ Remediation

These materials can deliver oxidants to the subsurface in the quantity and location necessary to achieve remedial goals without the need for pressurized liquid injections.

Dr. Lindsay Swearingen, Specialty Earth Sciences, LLC

Thursday PM

10:55 AM-11:20 AM

Proposed Changes to Rules for Decontamination of Meth Labs

Major changes to the existing meth lab cleanup rules are being proposed, along with more comprehensive guidance on sampling, investigation, and decontamination.

Chris Andel, PG, TDEC - Division of Remediation

11:20 AM-11:30 AM

Session Close

11:30 AM-1:00 PM

Networking Break - Lunch Served in Banquet Rooms

Friday



Exhibitors



8:40 AM-8:50 AM

Moderator Amelia Poe, TDEC, opens the session

8:50 AM-9:30 AM

Air Quality Permit Fees

This presentation will cover Title V fee changes for 2018 and 2019 and the need for future Title V and non-Title V fee increases and the current stakeholder process.

James P. Johnston, TDEC - Division of Air Pollution Control

9:30 AM-10:00 AM

Refreshments in the Exhibit Hall - Sponsored by tarpARMOR

10:00 AM-10:40 AM

EPA Air Quality Update

Update on federal air regulations and programs.

Scott Davis, U.S. EPA Region 4

10:40 AM-11:20 AM

Tennessee Air Quality Update

This presentation will provide information regarding air quality in Tennessee and changes to the Air Division's regulations and procedures.

Paul LaRock, TDEC - Division of Air Pollution Control

11:20 AM-11:30 AM

Session Close

11:30 AM-1:00 PM

Networking Break - Lunch Served in Banquet Rooms

Wednesday AM

Wednesday PM

Thursday AM

8:00 AM-8:10 AM

Moderator Benjamin Almassi, TDEC, opens the session

8:10 AM-8:50 AM

The Complications of Amending the Definition of Solid Waste

API vs. EPA (D.C. Cir. 2017 and 2018) rulings impact on Underground Storage Tanks and Solid Waste Disposal Control Board rule amendments and rulemaking process.

L. Wayne Gregory, TDEC - Office of General Counsel

8:50 AM-9:30 AM

Federal and State Hazardous Waste, Universal Waste and Used Oil Regulation & Policy Update

A combined EPA and Tennessee update on recent and pending changes in the federal and state hazardous waste regulations and any related guidance.

Jacqueline Okoreeh-Baah, TDEC - Division of Solid Waste Management

Alan Newman, U.S. Environmental Protection Agency (EPA)

Larry Lamberth, U.S. Environmental Protection Agency (EPA)

9:30 AM-10:00 AM

Refreshments in the Exhibit Hall - Sponsored by tarpARMOR

10:00 AM-10:40 AM

Understanding EPA's Generator Improvements Rule

States are "on the clock" to adopt the more stringent changes under EPA's 2016 Generator Improvements Rule. We'll discuss the significant changes - more/less stringent.

Scott C. Dunsmore, CET, Lion Technology Inc.

10:40 AM-11:20 AM

DSWM Elevates Quality and Consistency with Training

TDEC will present new training and outreach programs aimed at elevating our quality and consistency in inspections and materials sampling and analysis.

Patrick Mulligan, PG, TDEC - Division of Solid Waste Management

11:20 AM-11:30 AM

Session Close

11:30 AM-1:00 PM

Networking Break - Lunch Served in Banquet Rooms

Thursday PM

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Exhibitors

Wednesday AM

8:00 AM-8:10 AM

Moderator Patrick Mulligan, TDEC, opens the session

8:10 AM-9:00 AM

Landfill Fires - Cause, Prevention, and Mitigation

Landfill fires present significant environmental problems and impact landfill operations. This presentation will focus on the cause, prevention, and mitigation of these events.

Robert C. Bachus, PhD, PE, DGE, Geosyntec Consultants

9:00 AM-9:30 AM

Landfill Leachate Collection Systems - a Review of the Basics

This presentation provides a review of the basics associated with landfill leachate collection and removal systems. Topics include design, layout, operation, and maintenance.

Andrew J. Querio, PE, CPESC, EIL (Environmental Information Logistics)

Chirag Nanavati, EIL (Environmental Information Logistics)

Wednesday PM

9:30 AM-10:00 AM

Refreshments in the Exhibit Hall - Sponsored by tarpARMOR

10:00 AM-10:15 AM

Landfill Leachate Collection Systems Continued

10:15 AM-11:00 AM

Odor Control at Class I Landfills

Jeffrey Michael Fantell, PE, Joyce Engineering, Inc., a LaBella Company

Jason Repsher, TDEC - Division of Solid Waste Management

11:00 AM-11:20 AM

Solid Waste Regulatory Updates

Brief update on TN regulatory changes affecting landfills, processors, and other solid waste permit holders as well as changes to recyclers.

Nickolaus Brent Lytle, TDEC - Division of Solid Waste Management

Thursday AM

11:20 AM-11:30 AM

Session Close

11:30 AM-1:00 PM

Networking Break - Lunch Served in Banquet Rooms

Exhibit Hall Features and Prizes

Thursday PM

Exhibitors!

With over 160 different organizations represented in the Exhibit Hall this year, you could spend hours just trying to see all the booths! Fortunately, we've scheduled plenty of time outside of the technical sessions for you to try to meet every exhibitor on site.

Welcome Reception - Wednesday Evening

Join us for a networking reception in the Exhibit Hall, Wednesday, May 16, hosted by Republic Services, Inc. Starting at 5:00 PM, we'll have appetizers and drinks and get to know one another.



Friday

Networking Breaks

All that technical training can be intense! Stretch your legs and your arms by walking over to the Exhibit Hall for coffee and snacks with a side of handshaking. Our Wednesday afternoon break is sponsored by Jim's Tank Service and our Thursday morning break is sponsored by tarpARMOR and Southwestern Sales.



Exhibitors

Ice Cream Social - Thursday Afternoon

Your last chance to see the Exhibit Hall, the Ice Cream Social takes place during the Thursday afternoon networking break from 2:30 to 3:15 PM and features prize drawings and giveaways (plus sundaes)!

You must be present to win!

Hospitality sponsored by HEPACO.

**HDTV Giveaway -**

How can you be sure you've seen all the exhibitors? Take your Exhibit Hall map with you and get it stamped at each booth you visit. Visit them all for a chance to win a 65" 4k HDTV! The completed map is your entry form. Just drop it in the box at the Exhibit Hall break area by 2:20 PM on Thursday afternoon. The TV giveaway is sponsored by Weaver Consultants Group.

**Scavenger Hunt -**

Can you spot all 25 shapes hidden in the exhibitor displays? If you can, you will be entered to win an Amazon Echo Show sponsored by NorthStar Contracting Group! Completed entry forms must be dropped in the break area of the Exhibit Hall by 2:20 PM on Thursday.

**Exhibitor Superlatives!**

New this year, we're looking for your vote on which exhibitor has the most fun display and who has the most educational or informative booth. Your ballot form will enter both you and the exhibitor of your choice to win one of four \$150 gift cards! Thanks to our prize sponsors AmCon Environmental, Pointmap CAD & GIS Services, SWS Environmental Services, and Titan Environmental USA. Ballots are due by the end of lunch on Thursday - 1 PM.



8:00 AM-8:10 AM

Moderator George C. Garden, TDEC, opens the session

8:10 AM-8:50 AM

Fifty Year Plume Response to Successive Remedial Measures Employed with an Evolving Site Conceptual Model

Carbon Tetrachloride plume response to multi-generations of remedial measures employed at a 50-year old complex site with an evolving Site Conceptual Model.

David Heidlauf, Ramboll

8:50 AM-9:10 AM

Potable Water Loss in Tennessee

Audited water loss data provides insights into the magnitude, cost, and impact on overall water resources in the state. The presenter will discuss these insights and in what direction Tennessee may be headed with respect to this vital resource.

Angela Jones, PE, TDEC - Division of Water Resources

9:10 AM-9:30 AM

PAA for Wastewater Disinfection: What is Required in TN?

Summarization of the two methods based on receiving stream size for PAA permitting currently in TN and the number of permitted sites.

Ariel Wessel-Fuss, TDEC - Division of Water Resources

9:30 AM-10:00 AM

Refreshments in the Exhibit Hall - Sponsored by tarpARMOR**Moderator Ariel Wessel-Fuss, TDEC, resumes the session**

10:00 AM-10:40 AM

UAS-Based LiDAR Technology to Support Water Quality and Environmental Site Management

UAS based LiDAR technology is well suited for water quality and environmental site management. This presentation will review its capabilities and limitations through case studies.

Andrew Carroll, Skytec LLC

10:40 AM-11:20 AM

Bowling Green, KY - An Example of the Challenges of Developing on Karst

This presentation will highlight several of the challenges of developing on Karst terrains, such as sinkhole collapse, flooding and susceptibility to pollution.

Timothy Eugene Slattery, MS, TPM

11:20 AM-11:30 AM

Session Close

11:30 AM-1:00 PM

Networking Break - Lunch Served in Banquet Rooms

Wednesday AM

Wednesday PM

Thursday AM

Thursday PM

Friday

Exhibitors

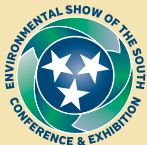
and More Thanks

Attendee Feedback Prize –

We want to hear from you! Give us your feedback and be entered to win one of two \$150 gift cards! Forms may be turned in at the Exhibit Hall break area or to On-Site Registration. The winner will be drawn during the Closing Session, and you must be present to win. Prizes sponsored by Enterprise Oil and Lighting Resources.

**Exhibitor Feedback Prize –**

We want to hear from Exhibitors too! Exhibitors who complete and return their feedback forms by 2:20 PM on Thursday will be entered to win a free standard booth for next year's event, May 15-17, 2019!



While we're thanking people...Our thanks to Environmental Specialties International (ESI) for our eco-friendly conference lanyards once again this year. These are made of 45% recycled material!



Thanks as well to TDEC's Office of Sustainable Practices for providing our conference tote bags, a 100% recycled and Made in the USA product. Be sure to stop by the TDEC Regulatory booth to pick up yours!

(The conference padfolios are also Made in the USA and their covers are made of 80% post-consumer material.)

Additionally, we want to thank Wright Brothers Contracting for providing food for the hungry pub crawlers on Tuesday night.



Finally, thanks as well to Burr & Forman for sponsoring our mobile app and to BDY Environmental for developing it.



Wednesday AM

8:00 AM-8:10 AM

Moderator Joseph Sanders, TDEC, opens the session

8:10 AM-8:50 AM

OSHA Safety & Health Critical New Regulatory and Legislative Developments, Updates and Hot Topics**Michael C. Mallen**, Miller & Martin PLLC

8:50 AM-9:30 AM

The Ole Pay and Chase ... How UST Has Reduced Their Risk

This presentation will demonstrate actual case studies that has lead to the recovery of reimbursement funds improperly paid to contractors providing work for UST.

Melinda Weir, TDEC - Division of Underground Storage Tanks

Wednesday PM

9:30 AM-10:00 AM

Refreshments in the Exhibit Hall - Sponsored by tarpARMOR

10:00 AM-10:35 AM

The Complications of Amending the Definition of Solid Waste

API vs. EPA (D.C. Cir. 2017 and 2018) rulings impact on Underground Storage Tanks and Solid Waste Disposal Control Board rule amendments and rulemaking process.

L. Wayne Gregory, TDEC - Office of General Counsel

10:35 AM-11:20 AM

Navigating the Local Approval Process for Permitting of Solid Waste Landfills

Discussion of the Solid Waste permitting process as it relates to the application of the "Jackson Law" and local approval provisions for landfills and processing facilities, Permit by Rule, etc.

William L. Penny, Burr & Forman, LLP**E. Joseph Sanders**, TDEC - Office of General Counsel

Thursday AM

11:20 AM-11:30 AM

Session Close

11:30 AM-1:00 PM

Networking Break - Lunch Served in Banquet Rooms

Thursday PM

Professional Development

Friday

Exhibitors

SWANA Members can earn up to 12 Continuing Education Units (CEUs) for relevant technical sessions. CEU forms will be available at the TN SWANA Booth and in the sessions.



Professional Engineers can earn Professional Development Hours (PDHs) at the conference. Keep a record of your attendance, including a marked copy of the agenda indicating items attended, your receipt, and badge.

Attorneys can earn Continuing Legal Education (CLE) credits through the Tennessee Bar Association. Attorneys who wish to receive CLE credit must complete a form in the Environmental Law Sessions documenting session attendance and pay an additional \$150 fee along with conference registration.



Certified Hazardous Materials Managers/Practitioners can earn up to five Certification Maintenance Points (CMPs) per day. CHMMs and CHMPs are responsible for their own recordkeeping and must keep their badges and agendas.

Certificates of Attendance can be purchased by any attendee for \$10. Certificates can be picked up on May 18 prior to the conclusion of the conference.

Certified Landfill Operators can earn up to nine hours of continuing education during the conference. One credit hour is earned for each hour spent in the Solid Waste sessions. Half credit may also be earned for attending certain presentations in other tracks:

Materials Management (Rm 9-10):

All presentations qualify for half credit

Air Quality (Rm 12):

Updates on NSPS XXX/Cf Implementation and Compliance (Thursday 1:00 - 2:30 PM)

Coal Combustion Residuals (CCR - Rm 14):

All presentations qualify (Thursday 1:00 - 4:45 PM)

Water (Rm 16-17):

Water/Air Quality Requirements and Updates for Landfills (Thursday 1:00 - 1:50 PM)

Multi-Site Performance Review of Liquid Activated Carbon for Groundwater Treatment (Thursday 3:55 - 4:45 PM)

Forms will be available in the qualifying sessions to those desiring the credit. There is no additional charge for this.



11:30 AM-11:45 AM

Attendees get their lunches and get settled

11:45 AM-12:45 PM

TDEC Bureau of Environment Programs

An opportunity to hear from the TDEC Bureau of Environment divisions regarding the year's highlights and upcoming plans for each program.

TDEC - Division of Air Pollution Control

TDEC - Division of Radiological Health

TDEC - Division of Remediation

TDEC - Division of Solid Waste Management

TDEC - Division of Underground Storage Tanks

TDEC - Division of Water Resources



12:45 PM-1:00 PM

Attendees finish their meals and prepare for the next breakout

Wednesday AM

Wednesday PM

Thursday AM

Aquarium Reception

Attendees, exhibitors, speakers, and booth workers alike are all invited to join us at the Tennessee Aquarium Thursday evening, thanks to the Recycle Used Oil Program! We'll have the run of both aquarium buildings and the Pavilion outside, where our Conference Program cover photo was shot during the sunset last year! Our private reception starts at 7:00 PM under the Pavilion, with light hors d'oeuvres and access to a cash bar. Then, grab a drink and make your way inside the aquarium where we can mix and mingle among the aquatic life until 9:00 PM. TDEC's Used Oil Program is sponsoring this event to give us a firsthand view of why it's so important to recycle our used oil: so it doesn't contaminate our waterways and hurt these amazing animals!



The Tennessee Aquarium is located at 201 Market Street on the Riverwalk. That's an easy 20 minute stroll from the Convention Center if you'd like some fresh air, or you can hop on Downtown Chattanooga's free electric shuttle to get there even faster. Catch the shuttle outside the Marriott Hotel just next door to the Convention Center.



Thursday PM

Friday

Exhibitors

Breakouts At A Glance

Wednesday Afternoon Session											
		Room 9-10	Room 11	Room 12	Room 13						
		Materials Management	Toxic Substances	Air Quality	Emerging Contaminants						
1:00 p.m.	Technical Session 1 - Part 1	Session opening	Session opening	Session opening	Session opening	1:00 p.m.					
1:05 p.m.		Financial Management Panel				1:05 p.m.					
1:10 p.m.		Profit/Loss Tracking for Small Recyclers	New TSCA Active/Inactive Chemical Lists: Are Your Chemicals Banned?	Reflections on the CAAA of 1990 & A Tale of Two Cities	Emerging Contaminants: Poly- & Perfluoroalkyl Substances (PFAS)	1:10 p.m.					
1:15 p.m.						1:15 p.m.					
1:20 p.m.						1:20 p.m.					
1:25 p.m.						1:25 p.m.					
1:30 p.m.		EPA Cost Benefit Analysis Tool	Lead Poisoning: <i>All in the Family</i>	EPA Region 4 Air Quality Initiatives	Keeping Receiving Waters Safe: Removing PFCs	1:30 p.m.					
1:35 p.m.						1:35 p.m.					
1:40 p.m.						1:40 p.m.					
1:45 p.m.						1:45 p.m.					
1:50 p.m.		Cost Benefiting County Recycling Programs	The Environmental Injustice of Lead Poisoning in Shelby County			1:50 p.m.					
1:55 p.m.						1:55 p.m.					
2:00 p.m.						2:00 p.m.					
2:05 p.m.						2:05 p.m.					
2:10 p.m.						2:10 p.m.					
2:15 p.m.						2:15 p.m.					
2:20 p.m.		Financial Management ends				2:20 p.m.					
2:25 p.m.						2:25 p.m.					
2:30 p.m.	Refreshments served in the Exhibit Hall - Sponsored by Jim's Tank Service					2:30 p.m.					
3:00 p.m.	Technical Session 1 - Part 2	Solid Waste Planning Panel	Generator Must-Knows for Shipping Hazardous Waste	Air Quality Health Benefits in Tennessee	North Carolina DEQ Update on PFOS / PFOA / GenX	3:00 p.m.					
3:05 p.m.		Davidson County Long-Term Zero Waste Master Plan				3:05 p.m.					
3:10 p.m.						3:10 p.m.					
3:15 p.m.						3:15 p.m.					
3:20 p.m.		Using Technology for Waste Diversion & Community Outreach	Comprehensive Housing Interventions: A New Way Forward for Healthy & Efficient Communities	Tennessee and the Volkswagen Diesel Settlement	Per- and Polyfluoroalkyl Substances (PFAS) in the Environment	3:20 p.m.					
3:25 p.m.						3:25 p.m.					
3:30 p.m.						3:30 p.m.					
3:35 p.m.						3:35 p.m.					
3:40 p.m.		Louisville's Solid Waste Study Efforts, Future is Now	Developing Efficient Systems for Mobile Inspection and Permitting			3:40 p.m.					
3:45 p.m.						3:45 p.m.					
3:50 p.m.						3:50 p.m.					
3:55 p.m.						3:55 p.m.					
4:00 p.m.		Session close	Session close	Session close	Session close	4:00 p.m.					
4:05 p.m.						4:05 p.m.					
4:10 p.m.						4:10 p.m.					
4:15 p.m.						4:15 p.m.					
4:20 p.m.		Welcome Reception held in the exhibit hall 5:00 to 6:30 pm - Sponsored by Republic Services					4:20 p.m.				
4:25 p.m.							4:25 p.m.				
5:00 p.m.							5:00 p.m.				
Thursday Morning Session											
		Room 9-10	Room 11	Room 12	Room 13						
		Materials Management	Remediation	Air Quality	Hazardous Waste						
7:30 a.m.	Exhibit Hall open; Breakfast served in the Exhibit Hall					7:30 a.m.					
8:00 a.m.	Technical Session 2 - Part 1	Session opening	Session opening		Session opening	8:00 a.m.					
8:05 a.m.		Organics Panel				8:05 a.m.					
8:10 a.m.		Taking On Large Organics Collection Projects	Horizontal Wells for Remediation of Chlorinated Solvent Sites		The Complications of Amending the Definition of Solid Waste	8:10 a.m.					
8:15 a.m.							8:15 a.m.				
8:20 a.m.							8:20 a.m.				
8:25 a.m.							8:25 a.m.				
8:30 a.m.		Surplus Food Donations – "An Alternative to Throwing Away Food"	Using EPA Brownfield Grants as a Tool for Community Revitalization	Session opening		8:30 a.m.					
8:35 a.m.						8:35 a.m.					
8:40 a.m.						8:40 a.m.					
8:45 a.m.						8:45 a.m.					
8:50 a.m.		Food Waste Management and Composting on a College Campus	Choosing the Correct Remediation Tool from the Remediation Toolbox	Air Quality Permit Fees	Federal and State Hazardous Waste, Universal Waste and Used Oil Regulation & Policy Update	8:50 a.m.					
8:55 a.m.						8:55 a.m.					
9:00 a.m.						9:00 a.m.					
9:05 a.m.						9:05 a.m.					
9:10 a.m.		Organics ends				9:10 a.m.					
9:15 a.m.						9:15 a.m.					
9:20 a.m.						9:20 a.m.					
9:25 a.m.						9:25 a.m.					
9:30 a.m.	Refreshments served in the Exhibit Hall - Sponsored by tarpARMOR & Southwestern Sales					9:30 a.m.					

Breakouts At A Glance

Wednesday Afternoon Session							
	Room 14	Room 15	Room 16-17	Room 18-19			
	Underground Storage Tanks	Solid Waste	Water	Environmental Law			
1:00 p.m.	Session opening	Session opening	Session opening	Session opening	Technical Session 1 - Part 1	1:00 p.m.	
1:05 p.m.						1:05 p.m.	
1:10 p.m.	Division of Underground Storage Tanks Regulatory Changes Update	Landfill Stability Part 2: Visual Indicators and Corrective Measures	Impacts of Invasive Aquatic Plants on Lake Ecosystems	Ethics Part I		1:10 p.m.	
1:15 p.m.						1:15 p.m.	
1:20 p.m.						1:20 p.m.	
1:25 p.m.						1:25 p.m.	
1:30 p.m.	Managing Rebound by Combining Persulfate, In Situ Ferrate Generation and Enhanced Bioremediation for Safer, More Effective Remedial	Challenges of Early Closure of Landfills	Navigating the New Jersey and Washington State Stormwater Programs as Models for Approving Manufactured Treatment Devices			1:30 p.m.	
1:35 p.m.						1:35 p.m.	
1:40 p.m.						1:40 p.m.	
1:45 p.m.						1:45 p.m.	
1:50 p.m.						1:50 p.m.	
1:55 p.m.						1:55 p.m.	
2:00 p.m.	Restoration & Reuse of Abandoned Facilities with Underground Storage Tanks			2:00 p.m.			
2:05 p.m.				2:05 p.m.			
2:10 p.m.				2:10 p.m.			
2:15 p.m.				2:15 p.m.			
2:20 p.m.				2:20 p.m.			
2:25 p.m.				2:25 p.m.			
2:30 p.m.	Refreshments served in the Exhibit Hall - Sponsored by Jim's Tank Service					2:30 p.m.	
3:00 p.m.	Groundwater High-Resolution Site Characterization (HRSC)	Win - Win by Reuse of the Customer's Special Waste	Evaluation of Municipal Sewerage Systems in Tennessee	Ethics Part II: Ethics in Litigation and Appeals	Technical Session 1 - Part 2	3:00 p.m.	
3:05 p.m.						3:05 p.m.	
3:10 p.m.						3:10 p.m.	
3:15 p.m.						3:15 p.m.	
3:20 p.m.						3:20 p.m.	
3:25 p.m.						3:25 p.m.	
3:30 p.m.		Tier 2 Testing for MSW Landfill Emission Guidelines and NSPS				3:30 p.m.	
3:35 p.m.						3:35 p.m.	
3:40 p.m.	UST Case Study Using Innovative Technologies		Sustainability in Green Landscaping & Tried and True Plant Choices for Bioswales in TN			3:40 p.m.	
3:45 p.m.						3:45 p.m.	
3:50 p.m.						3:50 p.m.	
3:55 p.m.						3:55 p.m.	
4:00 p.m.		DSWM Elevates Quality and Consistency with Training				4:00 p.m.	
4:05 p.m.						4:05 p.m.	
4:10 p.m.						4:10 p.m.	
4:15 p.m.						4:15 p.m.	
4:20 p.m.	Session close	Session close	Session close	Session close		4:20 p.m.	
4:25 p.m.						4:25 p.m.	
5:00 p.m.	Welcome Reception held in the exhibit hall 5:00 to 6:30 pm - Sponsored by Republic Services					5:00 p.m.	
Thursday Morning Session							
	Room 14	Room 15	Room 16-17	Room 18-19			
		Solid Waste	Water	Environmental Law			
7:30 a.m.	Exhibit Hall open; Breakfast served in the Exhibit Hall					7:30 a.m.	
8:00 a.m.		Session opening	Session opening	Session opening	Technical Session 2 - Part 1	8:00 a.m.	
8:05 a.m.						8:05 a.m.	
8:10 a.m.		Landfill Fires - Cause, Prevention, and Mitigation	Fifty Year Plume Response to Successive Remedial Measures Employed with an Evolving Site Conceptual Model	OSHA Safety & Health Critical New Regulatory and Legislative Developments, Updates and Hot Topics		8:10 a.m.	
8:15 a.m.						8:15 a.m.	
8:20 a.m.						8:20 a.m.	
8:25 a.m.						8:25 a.m.	
8:30 a.m.						8:30 a.m.	
8:35 a.m.						8:35 a.m.	
8:40 a.m.						8:40 a.m.	
8:45 a.m.						8:45 a.m.	
8:50 a.m.			Potable Water Loss in Tennessee	The Ole Pay and Chase – How UST Has Reduced Their Risk		8:50 a.m.	
8:55 a.m.						8:55 a.m.	
9:00 a.m.		Landfill Leachate Collection Systems - a Review of the Basics: Design, Layout, Construction, Operation, and Maintenance	PAA for Wastewater Disinfection			9:00 a.m.	
9:05 a.m.						9:05 a.m.	
9:10 a.m.						9:10 a.m.	
9:15 a.m.						9:15 a.m.	
9:20 a.m.						9:20 a.m.	
9:25 a.m.						9:25 a.m.	
9:30 a.m.	Refreshments served in the Exhibit Hall - Sponsored by tarpARMOR & Southwestern Sales					9:30 a.m.	

Breakouts At A Glance

Thursday Morning Session Continued									
		Room 9-10	Room 11	Room 12	Room 13				
		Materials Management	Remediation	Air Quality	Hazardous Waste				
10:00 a.m.	Technical Session 2 - Part 2	Grants Panel	Reasons and Technology for Controlling Excessive Methanogenesis during Remedial Actions	U.S. EPA Air Quality Update	Understanding EPA's Generator Improvements Rule	10:00 a.m.			
10:05 a.m.		Audit Preparedness for Grant Contracts				Controlled Release Environmental Reactants - A More Efficient Approach to In Situ Remediation	Tennessee Air Quality Update	DSWM Elevates Quality and Consistency with Training	10:05 a.m.
10:10 a.m.									10:10 a.m.
10:15 a.m.									10:15 a.m.
10:20 a.m.									10:20 a.m.
10:25 a.m.									10:25 a.m.
10:30 a.m.		North Carolina DEQ Recycling and Materials Management Grant Programs	Proposed Changes to Rules for Decontamination of Meth Labs			10:30 a.m.			
10:35 a.m.						10:35 a.m.			
10:40 a.m.						10:40 a.m.			
10:45 a.m.						10:45 a.m.			
10:50 a.m.		EPA Region 4 Grant Program				10:50 a.m.			
10:55 a.m.						10:55 a.m.			
11:00 a.m.						11:00 a.m.			
11:05 a.m.						11:05 a.m.			
11:10 a.m.	11:10 a.m.								
11:15 a.m.	11:15 a.m.								
11:20 a.m.	Session close	Session close	Session close	Session close	11:20 a.m.				
11:25 a.m.					11:25 a.m.				
11:30 a.m.	Lunch served in Banquet Rooms 11:30 to 1 pm					11:30 a.m.			
Thursday Afternoon Session									
		Room 9-10	Room 11	Room 12	Room 13				
		Materials Management	Vapor Intrusion	Air Quality	DOT Haz. Waste Refresher				
1:00 p.m.	Technical Session 3 - Part 1	Session opening Rethinking C&D Panel	Session opening	Session opening	Session opening	1:00 p.m.			
1:05 p.m.		Construction & Demolition Recycling in the US: Current State of Practice	Locating and Assessing the Age of VOC Sources Beneath Large Buildings	Updates on NSPS XXX/Cf Implementation and Compliance	DOT Hazardous Materials Refresher & Update	1:05 p.m.			
1:10 p.m.						1:10 p.m.			
1:15 p.m.						1:15 p.m.			
1:20 p.m.						1:20 p.m.			
1:25 p.m.						1:25 p.m.			
1:30 p.m.		Pilot Testing: The Key To Vapor Intrusion Mitigation Success	1:30 p.m.						
1:35 p.m.			1:35 p.m.						
1:40 p.m.			1:40 p.m.						
1:45 p.m.			1:45 p.m.						
1:50 p.m.			1:50 p.m.						
1:55 p.m.		The Baltimore Wood Project: Finding Wealth in the Waste Stream	Vapor Intrusion Mitigation - Engineering Controls for Indoor Air Protection of Large Commercial Structures			1:55 p.m.			
2:00 p.m.						2:00 p.m.			
2:05 p.m.						2:05 p.m.			
2:10 p.m.	2:10 p.m.								
2:15 p.m.	2:15 p.m.								
2:20 p.m.					2:20 p.m.				
2:25 p.m.					2:25 p.m.				
2:30 p.m.	Ice Cream Social held in the Exhibit Hall 2:30 to 3:15 pm - Sponsored by HEPACO					2:30 p.m.			
3:15 p.m.	Technical Session 3 - Part 2	Household Haz. Waste and BOPAE	Natural Source Zone Depletion	Permits by Rule and General Permits	DOT Hazardous Materials Refresher & Update Continued	3:15 p.m.			
3:20 p.m.		Ethanol and Sugar Recycling				3:20 p.m.			
3:25 p.m.		Temporary HHW Containers, Convenience to the Citizens				Vapor Intrusion Mitigation Technologies & Trends for Brownfield Redevelopment	EPA Memorandums from Scott Pruitt	3:25 p.m.	
3:30 p.m.								3:30 p.m.	
3:35 p.m.								3:35 p.m.	
3:40 p.m.			3:40 p.m.						
3:45 p.m.			3:45 p.m.						
3:50 p.m.		Charge Up Safety: Addressing Lithium Battery Management				3:50 p.m.			
3:55 p.m.						3:55 p.m.			
4:00 p.m.						4:00 p.m.			
4:05 p.m.						4:05 p.m.			
4:10 p.m.						4:10 p.m.			
4:15 p.m.						4:15 p.m.			
4:20 p.m.				4:20 p.m.					
4:25 p.m.				4:25 p.m.					
4:30 p.m.				4:30 p.m.					
4:35 p.m.	Session close	Session close	Session close	Session close	4:35 p.m.				
4:40 p.m.					4:40 p.m.				
4:45 p.m.			Free time		4:45 p.m.				

Free time

Breakouts At A Glance

Thursday Morning Session Continued										
	Room 14	Room 15	Room 16-17	Room 18-19						
		Solid Waste	Water	Environmental Law						
10:00 a.m.		Landfill Leachate Continued	UAS-Based LiDAR Technology to Support Water Quality and Environmental Site Management	The Complications of Amending the Definition of Solid Waste	Technical Session 2 - Part 2	10:00 a.m.				
10:05 a.m.							10:05 a.m.			
10:10 a.m.							10:10 a.m.			
10:15 a.m.		Odor Control at Class I Landfills						10:15 a.m.		
10:20 a.m.								10:20 a.m.		
10:25 a.m.								10:25 a.m.		
10:30 a.m.								10:30 a.m.		
10:35 a.m.									10:35 a.m.	
10:40 a.m.								Bowling Green, Kentucky - An Example of the Challenges of Developing on Karst	Navigating the Local Approval Process for Permitting of Solid Waste Landfills	10:40 a.m.
10:45 a.m.										10:45 a.m.
10:50 a.m.										10:50 a.m.
10:55 a.m.										10:55 a.m.
11:00 a.m.	Solid Waste Regulatory Updates							11:00 a.m.		
11:05 a.m.		11:05 a.m.								
11:10 a.m.		11:10 a.m.								
11:15 a.m.		11:15 a.m.								
11:20 a.m.		Session close	Session close	Session close		11:20 a.m.				
11:25 a.m.						11:25 a.m.				
11:30 a.m.	Lunch served in Banquet Rooms 11:30 to 1 pm					11:30 a.m.				
Thursday Afternoon Session										
	Room 14	Room 15	Room 16-17	Room 18-19						
	Coal Combustion Residuals	SWANA	Water	Environmental Law						
1:00 p.m.	Session opening	Session opening	Session opening	Session opening	Technical Session 3 - Part 1	1:00 p.m.				
1:05 p.m.						1:05 p.m.				
1:10 p.m.	Beneficial Use of Coal Combustion Residuals for Closure of Coal Ash	Going Green and Saving Green: The Environmental and Financial Benefits of Exposed Geosynthetics	Water/Air Quality Requirements and Update for Landfills	Tweets in the Air 2		1:10 p.m.				
1:15 p.m.							1:15 p.m.			
1:20 p.m.							1:20 p.m.			
1:25 p.m.							1:25 p.m.			
1:30 p.m.							1:30 p.m.			
1:35 p.m.	Beyond Cap-in-Place: CCR On-Site Clean Closure Using Macroencapsulation							1:35 p.m.		
1:40 p.m.								1:40 p.m.		
1:45 p.m.								1:45 p.m.		
1:50 p.m.						Lessons Learned with Closure by Removal Projects	Land Application Requirements for Residual with Pathogens and Vectors	How To Get Your Wastewater Plan Approved Faster!	1:50 p.m.	
1:55 p.m.										
2:00 p.m.			2:00 p.m.							
2:05 p.m.			2:05 p.m.							
2:10 p.m.	Group Discussion			2:10 p.m.						
2:15 p.m.				2:15 p.m.						
2:20 p.m.				2:20 p.m.						
2:25 p.m.				2:25 p.m.						
2:30 p.m.		Ice Cream Social held in the Exhibit Hall 2:30 to 3:15 pm - Sponsored by HEPACO				2:30 p.m.				
3:15 p.m.	Innovative Hydraulic Matrices: Expanded BMP's Using Standard Equipment	Electrical Leak Detection for Landfill Liner Geomembranes - A Case Study	Technical and Cost Comparisons of Candidate Final Cover Systems for CCR Unit Closures	Chattanooga Brownfields: The Encore Mystery Tour		Technical Session 3 - Part 2	3:15 p.m.			
3:20 p.m.									3:20 p.m.	
3:25 p.m.								3:25 p.m.		
3:30 p.m.								3:30 p.m.		
3:35 p.m.					Remedial Technologies to Address CCR Constituents in Groundwater				3:35 p.m.	
3:40 p.m.								3:40 p.m.		
3:45 p.m.								3:45 p.m.		
3:50 p.m.								3:50 p.m.		
3:55 p.m.	Investigating CCR Impacts: An Overview of the EIP Process in Tennessee						Case Study on Use of Passive Soil Gas Sampling Devices to Delineate VOC and TPH Groundwater Impacts	Multi-Site Performance Review of Liquid Activated Carbon for Groundwater Treatment	3:55 p.m.	
4:00 p.m.										4:00 p.m.
4:05 p.m.				4:05 p.m.						
4:10 p.m.				4:10 p.m.						
4:15 p.m.		Group Discussion			4:15 p.m.					
4:20 p.m.				4:20 p.m.						
4:25 p.m.				4:25 p.m.						
4:30 p.m.				4:30 p.m.						
4:35 p.m.	Session close		Session close	Session close	4:35 p.m.					
4:40 p.m.					4:40 p.m.					
4:45 p.m.	Free time				4:45 p.m.					
7:00 p.m.	Networking Reception to be Held at the Tennessee Aquarium - Sponsored by the TN Used Oil Recycling Program						7:00 p.m.			

Wednesday AM

1:00 PM-1:10 PM

Rethinking C&D Panel**Moderator Bob Fletcher, TDEC, opens the session**

1:10 PM-1:50 PM

Construction and Demolition Recycling in the US: Current State of Practice

The current state of C+D debris recycling in the US will be discussed. Benefits, opportunities and challenges will be highlighted.

Timothy G. Townsend, University of Florida

1:50 PM-2:30 PM

The Baltimore Wood Project: Finding Wealth in the Waste Stream

Vacant and blighted housing units plague many Cities. In Baltimore The USFS and Humanim are working with the City to remove blight, create jobs, and restore the land.

Morgan Grove**Jeffrey E. Carroll, MBA LEED AP**, Humanim

Wednesday PM

2:25 PM-2:30 PM

Panel Conclusion

2:30 PM-3:15 PM

Ice Cream Social in the Exhibit Hall - Sponsored by HEPACO

3:15 PM-3:20 PM

Household Hazardous Waste/BOPAE Panel**Moderator David Sutton, TDEC, opens the discussion**

3:20 PM-3:45 PM

Ethanol and Sugar Recycling

A review of Dynamic Recycling's new Bristol, TN facility that focuses on the recycling of ethanol and sugar based wastes.

Brian W. Potter, Dynamic Recycling LLC.

Thursday AM

3:45 PM-4:10 PM

Temporary HHW Containers, Convenience to the Citizens

Temporary HHW containers (THHWC) are options for counties and municipalities looking to have a year round location. The convenience meets Objective 2 and 7 of the 2025 plan.

Bob Fletcher, TDEC - Division of Solid Waste Management

4:10 PM-4:35 PM

Charge Up Safety: Addressing Lithium Battery Management

Call2Recycle will provide insight on why lithium based batteries are causing safety and fire issues and suggest steps to address their proper management and recycling.

Timothy Warren, Call2Recycle, Inc.

Thursday PM

4:35 PM-4:45 PM

Session Close

7:00 PM-9:00 PM

Networking Reception at the Tennessee Aquarium

Friday



Exhibitors

1:00 PM-1:10 PM	Moderator Charles Jobe, TDEC, opens the session	Wednesday AM
1:10 PM-1:35 PM	Locating and Assessing the Age of VOC Sources Beneath Large Buildings This presentation describes how to collect and use high resolution sub-slab soil gas data sets and GIS technologies to evaluate the location and age of VOC sources at depth beneath large buildings. Craig A. Cox, CPG , Cox-Colvin & Associates, Inc.	
1:35 PM-2:00 PM	Pilot Testing: The Key to Vapor Intrusion Mitigation Success Soil Vapor Mitigation is an effective tool when treating vapor intrusion, but only when done correctly. Diagnostics are a mixture of science, field experience and feel. Creating a solid data set using these tools ensures a system will be scaled correctly to address the entire containment area. Tony McDonald , A-Z Solutions, Inc.	Wednesday PM
2:00 PM-2:30 PM	Vapor Intrusion Mitigation - Engineering Controls for Indoor Air Protection of Large Commercial Structures Large buildings require industrial scale vapor intrusion mitigation equipment installations. In short, Radon systems are not sufficient for commercial applications. Dr. Lindsay Swearingen , Specialty Earth Sciences, LLC	
2:30 PM-3:15 PM	Ice Cream Social in the Exhibit Hall - Sponsored by HEPACO	Thursday AM
3:15 PM-3:55 PM	Natural Source Zone Depletion A discussion of the different methods of measuring NSZD, the key NSZD elements of the LCSM, and where NSZD fits into your LCSM when making site decisions. Justin Micah Meredith , TDEC - Division of Remediation	
3:55 PM-4:35 PM	Vapor Intrusion Mitigation Technologies & Trends for Brownfield Redevelopment Learn about the vapor intrusion mitigation technologies available for new construction and existing building scenarios. Jordan Kleine, MPA , Land Science	Thursday PM
4:35 PM-4:45 PM	Session Close	
7:00 PM-9:00 PM	Networking Reception at the Tennessee Aquarium	

1:00 PM-1:10 PM	Moderator Amy Katcher, TDEC, opens the session	Friday
1:10 PM-2:30 PM	Updates on NSPS XXX/Cf Implementation and Compliance This presentation will provide an understanding of what facilities are impacted by the NSPS XXX and Cf rules, what must be done to initially comply with these rules, how facilities must change their operations, and what hurdles the landfill industry still faces with respect to these new rules. Julie Hall , Cornerstone Environmental Group	
2:30 PM-3:15 PM	Ice Cream Social in the Exhibit Hall - Sponsored by HEPACO	Exhibitors
3:15 PM-3:55 PM	Permits by Rule and General Permits Discussion of Permits-by-Rule and General Permitting, new permitting options for certain industry groups. How do they work, what advantages they have, and who can use them. Donovan Grimwood , TDEC - OEA Small Business Environmental Assistance Program	
3:55 PM-4:35 PM	EPA Memorandums from Scott Pruitt Discussion of recent memorandums from EPA that clarify or change former policies affecting permit holders. Lem Stevens , Stevens Environmental Consulting	
4:35 PM-4:45 PM	Session Close	
7:00 PM-9:00 PM	Networking Reception at the Tennessee Aquarium	

Thursday, May 17

DOT Hazardous Materials Refresher & Update

Room 13

Wednesday AM

1:00 PM-1:10 PM

Moderator Robert Nakamoto, TDEC, opens the session

1:10 PM-2:30 PM

DOT Hazardous Materials Refresher & Update

This session covers recent developments, special topics, and useful tips in hazmat transportation. A test will be provided per 49 CFR 172.702(d).

Linda Lawhorn, CHMM, CDGP, Strata-G Staffing Services

2:30 PM-3:15 PM

Ice Cream Social in the Exhibit Hall - Sponsored by HEPACO

3:15 PM-4:35 PM

DOT Hazardous Materials Refresher & Update Continued

Wednesday PM

4:35 PM-4:45 PM

Session Close

7:00 PM-9:00 PM

Networking Reception at the Tennessee Aquarium

Thursday, May 17

Coal Combustion Residuals

Room 14

Thursday AM

1:00 PM-1:10 PM

Moderator Rob Burnette, TDEC, opens the session

1:10 PM-1:30 PM

Beneficial Use of Coal Combustion Residuals for Closure of Coal Ash Impoundments

Federal and certain State regulations allow the use of coal combustion residuals (CCR) for beneficial uses. This presentation provides a case study of a CCR impoundment closure that used CCR to increase final grades as part of the closure.

Rick J. Buffalini, PE, Civil & Environmental Consultants, Inc.

1:30 PM-1:50 PM

Beyond Cap-in-Place: On-Site Clean Closure using Macroencapsulation

Economical/environmental CCR beneficial use system offers clean closure of CCR impoundments. EnCAP-IT's safeBERM® technology converts wet basins to dry, lined storage.

John P Swenson, EnCAP-IT

Jeffrey Crate, Waste Resource Services, LLC

Thursday PM

1:50 PM-2:10 PM

Lessons Learned with Closure by Removal Projects

Review of lessons learned during closure by removal projects. We will explore the operational and efficiency challenges encountered and methods for mitigation.

Kathryn Nash, Waste Management

2:10 PM-2:30 PM

Group Discussion

2:30 PM-3:15 PM

Ice Cream Social in the Exhibit Hall - Sponsored by HEPACO

3:15 PM-3:35 PM

Innovative Hydraulic Matrices: Expanded BMP's Using Standard Equipment

Learn how hydraulically applied tools are being used in the erosion control and vegetative rehabilitation spaces.

Troy Duxbury, LSC Environmental Products, LLC

Friday

3:35 PM-3:55 PM

Remedial Technologies to Address CCR Constituents in Groundwater

Brief discussion of concepts of hydrogeology and geochemistry as they apply to evaluating and selecting remedial technologies for CCR Rule Appendix IV constituents in groundwater, and a summary of experience with in-situ and ex-situ technologies for groundwater remedies.

Richard W. Arnseth, PhD, PG, PMP, Tetra Tech, Inc.

Exhibitors

3:55 PM-4:15 PM

Investigating CCR Impacts: An Overview of the EIP Process in TN

Overview of the EIP development process, a review of core elements of the EIP, and an update on the current status of site investigations at each TVA CCR Facility in TN.

Robert Wilkinson, PG, CHMM, TDEC Bureau of Environment

4:15 PM-4:35 PM

Group Discussion

4:35 PM-4:45 PM

Session Close

7:00 PM-9:00 PM

Networking Reception at the Tennessee Aquarium

1:00 PM-1:10 PM	Moderator Mary Anderson, SWANA, opens the session	Wednesday AM
1:10 PM-1:50 PM	Going Green and Saving Green: The Environmental and Financial Benefits of Exposed Geosynthetics Landfills face many environmental and financial challenges. Learn how exposed geosynthetics can help you operate greener and save you money! Ryan Kamp , Chesapeake Containment Systems, Inc	Wednesday AM
1:50 PM-2:30 PM	Land Application Requirements for Residuals with Pathogens and Vectors An overview of land application requirements for various residuals that contain pathogens and vectors, such as biosolids and food processing wastes. Robert G. O'Dette , TDEC - Division of Water Resources Serena A. Broska , TDEC - Division of Solid Waste Management	Wednesday PM
2:30 PM-3:15 PM	Ice Cream Social in the Exhibit Hall - Sponsored by HEPACO	Thursday AM
3:15 PM-3:55 PM	Electrical Leak Detection for Landfill Liner Geomembranes Introduction to Electrical Leak Location. A guide for planning and preparing for Electrical Leak Location. A description of each test method, equipment, advantages and disadvantages, highlighting projects and results. Andrew Allen Colby , Bunnell - Lammons Engineering, Inc.	Thursday AM
3:55 PM-4:35 PM	Case Study on Use of Passive Soil Gas Sampling Devices to Delineate VOC and TPH Groundwater Impacts Passive Soil Gas (PSG) methods were used at/near a closed landfill site to identify an off-site contaminant source(s) and to delineate groundwater impact areas. Michael Hirt, PG , Environmental Information Logistics, LLC Andrew J. Querio, PE, CPESC , EIL (Environmental Information Logistics)	Thursday AM
4:35 PM-4:45 PM	Session Close	Thursday PM
7:00 PM-9:00 PM	Networking Reception at the Tennessee Aquarium	Friday

Eco-Friendly Advancements

Conferences are not known for being the most environmentally-friendly activities, and neither is golfing, but the State of Tennessee is making great strides to change that!

The Harrison Bay State Park which hosted our Show of the South Golf Tournament on Tuesday, May 15, is known for more than just their Eagle Cam (harrisonbayeaglecam.org); their signature Jack Nicklaus designed Bear Trace golf course has a reputation for being even greener than the color of their fairways! They are certified with the Audubon Cooperative Sanctuary Program for Golf and the Golf Environment Organization (GEO), as well as being a Groundwater Guardian Green Site.

Harrison Bay is located on 40 miles of the Chickamauga Lake shoreline, and the careful management of this golf course has a direct correlation with its amazing wildlife's ability to thrive.



TDEC would like to make the Show of the South just as green as the golf course! Our 2025 Solid Waste Management Plan encourages the reuse, composting, and beneficial use of organics and sets a goal for expanding education and outreach concerning waste reduction, recycling, and composting programs to the public. What better place to see these goals in action!

We've made sure to source eco-friendly swag, and our tote bags, lanyards, and padfolios are all made with recycled materials. But one of the biggest challenges for an event like this is the amount of trash generated! They say the average conference attendee generates about 61 pounds of waste per day, compared to an 13.5 pounds produced by the same person at home.

We've hired Atlas Organics to collect and compost



our food waste! All of our leftover or scrap food (except raw meat) will be collected and composted, as well as things like napkins, wood coffee stirrers and compostable cocktail straws!

Wednesday AM	1:00 PM-1:10 PM	Moderator Angela Jones, TDEC, opens the session
	1:10 PM-1:50 PM	Water/Air Quality Requirements and Update for Landfills An overview of landfill air quality and stormwater compliance regulations, and the latest updates to the NSPS CF and XXX subparts. Josh Haar, PE , Trinity Consultants Lina Luo , Trinity Consultants
	1:50 PM-2:30 PM	How To Get Your Wastewater Plan Approved Faster! The major delay in approving wastewater treatment construction documents is the permitting process. By involving TDEC-DWR early, delays can be eliminated. George C. Garden, PE, BCEE , TDEC - Division of Water Resources
Wednesday PM	2:30 PM-3:15 PM	Ice Cream Social in the Exhibit Hall - Sponsored by HEPACO Moderator George C. Garden, TDEC, resumes the session
	3:15 PM-3:55 PM	Technical and Cost Comparisons of Candidate Final Cover Systems for CCR Unit Closures This presentation will discuss benefits and challenges, design considerations, technical performance, and construction and post-closure maintenance costs of candidate final cover systems that are applicable to closure of a CCR unit. Ming Zhu, PhD, PE , Watershed Geosynthetics
	3:55 PM-4:35 PM	Multi-Site Performance Review of Colloidal Carbon for GW Treatment This presentation will examine evidence from the field related to practical application of the technology, subsurface distribution, and short and long term performance. Chad Northington, PE , Regenesi
Thursday AM	4:35 PM-4:45 PM	Session Close
	7:00 PM-9:00 PM	Networking Reception at the Tennessee Aquarium

Thursday PM		Thursday, May 17	Environmental Law	Room 18-19
Friday	1:00 PM-1:10 PM	Moderator Karen Simo, TDEC, opens the session		
	1:10 PM-2:30 PM	Tweets in the Air 2 A presentation to update topics from last year's program covering changes from the Trump/Pruitt EPA under the Clean Air Act to the Clean Power Plan and more. Steven R. Stout , TDEC - Office of General Counsel Khurshid K. Mehta , TVA		
	2:30 PM-3:15 PM	Ice Cream Social in the Exhibit Hall - Sponsored by HEPACO		
Exhibitors	3:15 PM-4:35 PM	Chattanooga Brownfields: The Encore Mystery Tour Join us for classroom discussion of the legalities of the Brownfield process and (if approved) an encore mobile mystery tour of some nearby brownfield sites that have contributed to the Chattanooga renaissance. David C Higney , Grant Konvalinka + Harrison, PC Troy Keith, PG , TDEC - Division of Remediation Evan Spann , TDEC - Division of Remediation Karen Stevenson Simo , TDEC - Office of General Counsel Michael C. Mallen , Miller & Martin PLLC		
	4:35 PM-4:45 PM	Session Close		
	7:00 PM-9:00 PM	Networking Reception at the Tennessee Aquarium		



Feedback Drawings

We want to hear from everyone—attendees, exhibitors, speakers, moderators, booth workers—what did you think about the Show?

Turn in your Feedback Survey at On-Site Registration, the Exhibit Hall Break Area, or the collection box in the Closing Session.

To thank you for helping us continue to improve, your feedback survey will also act as your entry into a prize drawing! The Exhibitor Drawing will be part of the Ice Cream Social, and the Attendee Drawing will take place during the closing session on Friday. You must be present to win!

7:30 AM-8:15 AM

8:15 AM-8:20 AM

8:20 AM-8:50 AM

8:50 AM-9:10 AM

9:10 AM-10:50 AM

10:50 AM-11:00 AM

11:00 AM

Breakfast available in Meeting Room

Good Morning!

Patrick J. Flood, PE, Director,
TDEC - Division of Solid Waste Management

Legislative Update

A review of legislative initiatives considered during the second session of the 110th Tennessee General Assembly that addressed environmental, conservation, and energy policy issues.

Alexa Witcher, TDEC - Office of General Counsel
Mallorie Kerby, TDEC - Office of General Counsel

TDEC Bureau of Environment Update

Tisha Calabrese Benton, Deputy Commissioner,
TDEC Bureau of Environment

Region 4 State Panel Discussion

State regulators will highlight the work their states are doing and comment on some of the issues important to all Region 4 states. Topics of discussion may include Coal Combustion Residuals Management, Generator Improvement Rule Impacts, and PFAS Issues and Future Initiatives.

Closing Remarks

Patrick J. Flood, PE

Conference Adjournment

MARK YOUR CALENDARS:

**THE SHOW OF THE SOUTH RETURNS TO
CHATTANOOGA MAY 15-17, 2019**



Wednesday AM

Wednesday PM

Thursday AM

Thursday PM

Friday

Exhibitors

Wednesday AM

A&D Environmental Services (208)

..... adenviro.com
A&D Environmental, Inc. provides a diverse range of responsible, accountable services that reduce risk and deliver peace of mind to the customers, communities, and consultants we serve. Our diverse range of environmental services include: Industrial Services, Remediation, Waste Management, Emergency Response and Transportation.

A.E. Drilling Services, LLC (310)

..... aedrilling.com
A.E. Drilling Services, LLC is a SBA-certified Economically Disadvantaged Woman-Owned Small Business (EDWOSB) based in Greenville, South Carolina. We have been providing national clientele high-quality environmental, geotechnical, and mineral exploration drilling services throughout the southeast since 1969. Our capabilities include auger, air rotary/air hammer, mud rotary, and DPT drilling.

Action Environmental (818)

..... actn.com
Action Environmental provides environmental services and industrial services which have a broad application across many industries. Additionally, we provide specialty services which include industrial painting and coating, pipeline and terminal services, rail car services, and remediation services.

Advanced Environmental Services, Inc. (304)

..... AdvancedEnvironmental.com
AES provides remediation equipment sales, rentals and services. With over 150 systems in our fleet, we have the largest in-house selection of mobile remediation systems available. We also offer a huge selection of remediation system components and environmental instruments.

AECOM (509-608)

..... aecom.com
Our environmental services help industrial and public sector clients around the world balance growth with resiliency — achieving compliance and reducing, or eliminating, risks while protecting our natural environment.

AGRU America, Inc (702)

..... agruamerica.com
Since 1988, Agru America, Inc. has been the world's leading manufacturer of flat die extrusion geomembranes, geonets, geocomposites, geotextiles and geosynthetic clay liners. Agru is part of Alois Gruber GmbH, an Austrian family-owned business since 1948 with production facilities in Austria, the U.S., Germany, China and India, and distribution in over 80 countries worldwide.

Air Dynamics Testing (130)

..... airdynamicstesting.com
The Trusted Name in Source Testing, Air Dynamics Testing provides high quality, cost effective source testing solutions along the I-65 corridor. For more information on the testing we provide, give us a call at 1-855-839-8378 (TEST).

Air Water & Soil Laboratories, Inc. (211)

..... awslabs.com
Air Water & Soil Laboratories, Inc. is a full-service laboratory specializing in the analysis of environmental samples. With over 20 years of experience in servicing a wide range of industries, AWS offers data of the highest quality and excellent customer service. Please visit www.awslabs.com for more information about our services and capabilities.

**AmCon Environmental (808)**

..... www.amconky.com
AmCon Environmental has been a leading manufacturer of alternate daily covers since 1988. Our tarps are easy to deploy, save air space and time. We build the toughest tarps possible and offer same day shipping on stock items while custom tarp orders are processed promptly and to your design.

American Lamp Recycling LLC (711)

..... americanlamprecycling.com

Arcadis (305-404)

..... www.arcadis.com/en/united-states/
Arcadis is the leading global Design & Consultancy firm for natural and built assets. Applying our deep market sector insights and collective design, consultancy, engineering, project and management services we work in partnership with our clients to deliver exceptional and sustainable outcomes throughout the lifecycle of their natural and built assets. Arcadis. Improving quality of life. www.arcadis.com.

ATC Group Services (231)

..... ATCGroupServices.com
ATC is a national provider of integrated environmental consulting and engineering services. We offer comprehensive expertise in air, land, and water combined with full design, project management, and implementation services to handle any challenge from consulting to completion.

Aulick Chemical Solutions (128)

..... aulickchemical.com
Aulick Chemical Solutions is a regional leader providing custom solutions to clean water and control odor. Public utility sector with wastewater and drinking water treatment and private industry with manufacturing, processing, and rendering facilities, Aulick has the experience to design custom solutions specific to your application. We're willing to go the extra mile to clean water or prevent hydrogen sulfide, odor, and corrosion for your utility or company.

A-Z Solutions, Inc (105)

..... vaporremoval.com
A-Z Solutions is the recognized leader in vapor intrusion mitigation. Our innovative system designs coupled with environmentally sustainable technology ensures our VI systems will be delivered on time, on budget and with optimal results. A-Z follows a solid foundation of basic principles: Environmental stewardship, exceptional customer service and strong business ethics.

Bakers Waste Equipment Inc. (522)

..... bwe-nc.com
Founded in 1981 with a vision to manufacture and provide waste handling equipment to the hauler and municipality network. After decades of success and growth, BWE continues to investment in its core products which include steel front load containers, roll off containers, heavy duty industrial containers, hoppers, trailers, recycling containers, and an innovative line of Pinnacle Compactors that is rapidly gaining market share and awareness.

Barge Design Solutions (512)

..... bargedesign.com
Barge Design Solutions provides permitting and design services for municipal and industrial solid waste landfills. Barge's environmental staff perform ecological services such as wetland delineations, stream determinations, endangered and threatened species surveys, and restoration and mitigation design and monitoring.

Wednesday PM

Thursday AM

Thursday PM

Friday

Exhibitors

Bartlett Controls (715)

.....bartlettcontrols.com
Manufacturers representative

Beacon Environmental Services (323)

.....beacon-usa.com
BEACON provides the highest quality soil gas and air monitoring data in the industry using time-integrated, sorbent samplers to collect samples over days or weeks. This advanced capability used throughout TN for the past 17 years enables our clients to collect more accurate data and win projects.

Blackhawk Technology Co (410)

.....blackhawkco.com
Blackhawk is the leading provider of reciprocating piston pumps for brownfield & groundwater remediation, recovery of coal tar, creosote, oil & other hydrocarbons, unknown chemicals. Top-head-drive motors & power at grade, safely & cleanly outside well/sump. Cost-effective pneumatics, electrics & solars pump any fluid at any angle, require less maintenance, non-polluting.

Bunnell-Lammons Engineering, Inc. (BLE) (830)

.....blecorp.com
Based in Greenville, SC with an office in Asheville, NC, BLE provides geotechnical, hydrogeological and construction CQA and testing services for solid waste landfills across the southeast. BLE provides a wide range of services for hydrogeologic siting evaluation, geotechnical engineering investigation, construction quality assurance, groundwater and landfill gas monitoring, groundwater quality statistical analysis, and storm water plans.

Blue Tank and Pump Rental (631)

.....bluetankandpump.com
Blue Tank and Pump Rental is more than just your rental company but your entire liquid solution. We provide liquid storage and transfer solutions for customers of all sizes, in all industries, and all processes with specific solutions designed to your specific needs. We provide the best equipment, best service and best people to provide the best, most economical solution to your liquid needs.

Caraustar Recycling (112)

.....caraustar.com
Caraustar Industries, Inc. is one of the largest integrated manufacturers of 100% recycled paperboard and converted paperboard products. Caraustar serves the four principal recycled boxboard product end-use markets. Our recycling division works with generators of cardboard and paper materials to supply our paper mills with a continuous stream of recycled fibers.

Cascade (618)

.....cascade-env.com
Cascade is the leading provider of environmental and infrastructure drilling, in situ remediation applications, and high resolution site characterization technologies. Our collaborative approach, high quality service, reliable crews, and leading safety program make Cascade the first choice in environmental services.

Champion Windows and Home Exteriors (833)

.....getchampion.com
Home Exteriors Company

Chase Environmental Group (505)

.....chaseenv.com
Environmental field services.
Groundwater remediation system construction/O & M;
Bioremediation injection, dual phase extraction; monitoring well installation, direct push services, radiological decontamination and decommissioning.

Civil & Environmental Consultants, Inc. (605)

.....cecinc.com
CEC provides engineering and consulting services for the management and disposal of municipal, construction/demolition, residual, hazardous, and gas exploration wastes, as well as coal combustion residuals. Our environmental professionals have extensive experience with regulatory compliance and industry management practices.

Clarke Power Services (627)

.....clarkepsi.com
Clarke Power Services is a commercial vehicle maintenance provider with an outstanding 50+ year track record of delivering value to the transportation and service industries. Clarke offers a comprehensive portfolio of services, or can customize solutions. Our commitment is to keep your assets working by delivering great service and to keep your equipment lifecycle costs on track.

Clean Earth, Inc. (419)

.....cleanearthinc.com
Clean Earth is one of the largest specialty waste companies in the U.S. providing remediation, disposal, recycling, and beneficial reuse solutions for contaminated soil, dredged material, and hazardous and non-hazardous wastes. It is our unique capability of providing a one-source, full-service solution to handle multiple waste streams from a single customer that separates us from the competition.

Clean Harbors/Safety-Kleen (609-708)

.....cleanharbors.com
For more than 35 years, Clean Harbors has been providing comprehensive hazardous and non-hazardous waste management services to meet the needs of customers throughout North America. Leader in providing response services for environmental emergencies of any scale on land or water.

CMI Equipment Sales, Inc. (709)

.....cmiequip.com
Providing equipment, parts and service to waste industry management for three decades.

CodePal Toolkit (811)

.....codepaltoolkit.com
Codepal is a Mobile Inspection and Permit Software Solution. We are designed to fit your way of working by adapting easily to a variety of industry standards. We pride ourselves on partnering with our clients, working together as a team to provide solutions that fit your needs and ease your workload.

Company Wrench Ltd. (528 - equipment 532)

.....companywrench.com
Company Wrench is a Heavy Equipment Sales, Rental, Service and Parts Company providing The Cutting Edge of Customer Service with a complete Dust Suppression product line. Our diesel self-contained product is great for evaporation, dust, odor, fire control, alternative daily cover in many markets.

Consolidated Pipe & Supply (820)

.....www.consolidatedpipe.com
Consolidated Pipe & Supply Co. distributes pipe, valves, & fittings from 42 locations located in 20 states. We offer a full line of HDPE fittings, pipe, and fusion machines.

Wednesday AM

Wednesday PM

Thursday AM

Thursday PM

Friday

Exhibitors

Wednesday AM

CTEH®, LLC (826)

..... cteh.com
Center for Toxicology and Environmental Health, LLC (CTEH®) is a science-based environmental consulting firm established to provide toxicology and human health consulting. CTEH® provides highly technical and highly responsive professionals to evaluate and develop solutions to a wide variety of human health and environmental issues.

CTI Engineers, Inc. (414)

..... ctiengr.com
CTI Engineers, Inc., is an employee-owned consulting firm specializing in engineering services for waste management, water, wastewater, and site development. Organized in 1991 in Chattanooga, TN, with 15 employees, CTI now has over 50 employees and offices in three states, serving municipal, commercial, and industrial clients.

D&L Safety Services, LLC (321)

..... www.dandsafetyservices.com
D&L Safety Services, LLC is a professional safety contracting company providing on-site safety professionals qualified for the specific needs of our clients, as well as on-site safety training, throughout the United States.

Directional Technologies, Inc. (303)

..... directionaltech.com
Whether it is your first horizontal well installation, or you have experience with the technology, Directional Technologies, Inc. is here to help you exceed your clients' expectations. Our master drillers, geologists, and engineers have installed over 1,000 horizontal wells in the last 25 years, and we have successfully utilized horizontal directional drilling technology at many projects originally thought to be unfeasible. Visit us at booth #303.

EarthCon Consultants, Inc. (132)

..... earthcon.com
Environmental Consulting, Engineering and Remediation

Eco Rental Solutions (832)

..... eco-rentalsolutions.com
Eco Rental Solutions Rents & Sells field test installations

ECS Southeast, LLP (713)

..... www.ecslimited.com
ECS environmental services include providing clients with a comprehensive understanding of the environmental aspects of a project and their impact on overall project requirements. ECS also provides geotechnical, construction materials and facility services. For more information and office listings, visit: www.ecslimited.com.

EDR (311)

..... edrnet.com
Our mission is to promote the environmental consulting industry and fill the needs of environmental consultants and engineers; we are committed to the success of the industry. From our flagship Radius Map Report—which has been used in more than six million environmental due diligence investigations—to our Due Diligence at Dawn seminar series, to our time saving workflow technologies, EDR is dedicated to the environmental consulting industry.

ENERG3 (413)

..... energ3.us
EnerG3 develops energy projects in the industrial, commercial, and municipal sectors, that reduce operating expense with affordable efficiency solutions (lighting, HVAC, Solar, CHP, EV Charging, UPS). Not only do we consult, design, engineer, procure, and construct, but we also approach sustainability projects from a strong financial position and assist our customers with obtaining "free" capital in the form of federal and local incentives.

EnSafe Inc. (514)

..... ensafe.com
Creative thinking, custom solutions - that's what EnSafe provides to both industry and government clients when it comes to EHS challenges. Our coast-to-coast professionals deliver environmental, engineering, health and safety and technology solutions for the toughest issues.

**Enterprise Oil (405-504)**

..... enteroil.com
Enterprise Oil, est. 1984, is a family-owned and operated used oil recycling company in the Southeast. We are flexible in our services, innovative in our solutions and committed to environmental sustainability by custom building programs to be the best solution for non-hazardous waste management needs including zero-landfill and industrial services.

Environmental Enterprises (828)

..... eeienv.com
Environmental Enterprises Inc. (EEI) is a full service Treatment, Storage and Disposal facility. EEI was founded in 1976 to service the greater Cincinnati, OH area and has expanded to cover the east and southeast with service centers in PA and VA. EEI provides a full line of disposal services to a diverse clientele in industry, government and academia. Lab Packing, precious metals recovery, aerosol can disposal and hazmat removal are a few of our specialties.

Environmental Management Specialists, Inc. (213)

..... EMSonsite.com
EMS is a professional environmental contractor specializing in remediation, emergency response, and environmental services with service centers across the Midwest, Mid-Atlantic, South-Central United States, and beyond to serve our customers including transportation companies, energy companies, environmental consultants, industrial facilities, environmental service companies, general contractors, property owners, and the public sector.

Environmental Specialties International, Inc. (315)

..... esiliners.com
With more than 2 billion square feet of installed geosynthetic lining materials and 2,000 projects completed throughout the United States, ESI is a leader in geosynthetic installation services for the solid waste industry.

Environmental Standards (409)

..... envstd.com
Environmental Standards, Inc. is a privately-held environmental consulting firm specializing in chemistry quality assurance, environmental analytical laboratory auditing, consulting geosciences, third-party field auditing, and information management. Local office in Knoxville, TN.

ERIS -**Environmental Risk Information Services (428)**

..... erisinfo.com
Environmental Data For Properties in North America

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ESC Lab Sciences (728)

..... esclabsciences.com

ESC Lab Sciences, a subsidiary of Pace Analytical, is one of the largest environmental analytical facilities in North America. ESC offers a full service analytical suite to meet our customers' diverse monitoring and characterization support needs including traditional soil, groundwater, wastewater, drinking water and TCLP along with air/vapor intrusion and radiochemistry.

ETEC, LLC (403)

..... etecllc.com

ETEC, LLC is a national provider of bio-focused remediation technologies that include soluble bioproducts and specialized recirculation equipment for soil and groundwater remediation.

Excel TSD of Tennessee, LLC (819)

..... exceltsd.com

Hazardous Waste T/S/D/F

Frost Environmental Services, LLC (412)

..... frostenvironmental.com

We are a full service environmental consulting firm specializing in asbestos, lead based paint, indoor air quality, industrial hygiene services.

Gatlinburg Crafts (134-136)

..... gatlinburgcrafts.com

The Craft Booth will feature pottery from Fowler's Clayworks and McAvoy Pottery both functional and decorative. Also featured will be sterling silver, mixed metal, real gemstone, and pearl jewelry from Gabriel's Horn Jewelry.

GEL Geophysics (228)

..... gelgeophysics.com

GEL Geophysics, LLC provides subsurface utility engineering (SUE), land surveying, and geophysical services. With 6 offices and nearly 50 employees strategically located throughout the Southeast, we are able to accommodate any size project for both public and private sector clients throughout the United States.

Geo Lab Drilling (313)

..... geolabdrilling.com

Environmental Drilling

GeoSearch (511-610)

..... geo-search.com

GeoSearch provides customers with fast, accurate, constructive information to help assess and manage environmental risk. GeoSearch is a complete source for all environmental due diligence needs including ASTM Environmental Database Reports, Historic Aerials, City Directory Research, Fire Insurance Maps, Lien and Title Search Investigations and more all in one place.

Geosyntec Consultants (520)

..... geosyntec.com

Geosyntec Consultants is a consulting firm with engineers, geologist, environmental scientist, and other technical and project staff based in offices throughout the United States and at selected locations in Australia, Canada, Ireland, Malaysia, and the UK. We address new ventures and complex problems involving our environment, natural resources, and civil infrastructure.

**Geo-Synthetics Systems (GSI)-
a Babcock Power Inc. company (703)**

..... geo-synthetics.com

In business for over 40 years, Geo-Synthetics Systems (GSI)- a Babcock Power Inc. company is a distributor, fabricator, and installer of geosynthetic materials for a broad range of erosion control and containment applications for landfill sites, construction sites, road construction projects and contaminated waterways.

Geotechnics, Inc. (727)

..... geotechnics.net

Geotechnics has been at the forefront of geotechnical and geosynthetic testing for over 30 years. In working with numerous consultants and engineers, Geotechnics understands the challenges associated with complex testing programs for Landfill Designs, Ash Storage Facilities, Dam Construction and more. CQA field services as well as electrical leak location services.

Golder Associates Inc. (822)

..... golder.com

Golder is an environmental and engineering industry leader in ground engineering, soil/rock mechanics, and environmental services for mining, manufacturing, power, oil & gas, design and infrastructure industries. Golder has completed some of the largest and most complex environmental and geotechnical engineering projects in the Southeast.

Hannah Solar (526)

..... hannahsolar.com

Hannah Solar is a full service, certified solar integrator and licensed electrical contractor dedicated to providing the very best in engineering, products, installation and servicing of solar arrays, battery storage systems, EV charging station equipment and backup generators.

Hawkston, LLC (615)

..... hawkston.com

Environmental Drilling Services

HEPACO, LLC (500)

..... hepaco.com

HEPACO, LLC is a specialty environmental contractor. Facility Decontamination, Asbestos/Lead Abatement, Remediation Services, Hazardous Material/Labpack Services and Emergency Response clean-up are a few of the services we are proud to offer our present and future clients.

**Heritage Environmental
Services (602)**

..... heritage-enviro.com

Heritage provides the best-in-class capabilities for all of your waste service needs, including emergency response, incineration, fuel blending, landfill, inorganic waste and wastewater treatment, recycling, transportation and data tracking. We are committed to continued customer service excellence and exceeding your expectations.

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Highland Technical Services, Inc. (629)

..... htsienv.com
 Founded in 1998, Highland Technical Services, Inc., is a full service environmental and geosciences consulting firm. We have years of experience in anticipating, identifying, and addressing a wide range of concerns for clients across the United States. Our clients include, but are not limited to: foundries, hazardous waste generators, solid waste landfills, lending institutions, underground storage tank owners and state and local government entities.

Hole Products (508)

..... holeproducts.com
 Hole Products is a global leader in providing high performance drilling supplies, tools and equipment to the construction, direct push, environmental, geotechnical, geothermal, HDD, mineral exploration, rotary, sonic, and water well drilling industries. Check out the drilling industry's leading ecommerce solution at www.holeproducts.com

Innovative Environmental Technologies, Inc. (420-422)

..... IET-INC.net
 Innovative Environmental Technologies, Inc. (est. 1998) is a technology vendor and remedial contractor. IET holds 11 patented technologies that have been used in over 1800 remediation projects across the United States and Canada. IET also has an Environmental Drilling division with licenses in 15 states.

In-Situ, Inc. (109)

..... in-situ.com
 For 30 Years In-Situ, Inc. has been the leader in water level and quality datalogging sensors for landfill leachate, mining, aquifer characterization and remediation. We manufacture, sell, rent and long-term lease loggers, meters and remote monitoring systems for all your project needs.

Integrated Tech/Aquashield (807)

Integrated Technologies represents AquaShield water quality units, Lane HDPE, PP, and CMP and Cultec underground detention chambers. Call us for all your stormwater needs: 615-738-6217.

iSi Environmental (835)

..... isienvironmental.com
 EHS Consulting

iSustain Inc (732)

..... isustainrecycling.com
 Solid/Liquid Waste & Recycling

Jerry White Magical Entertainment (131)

..... jwhitemagic.com
 JWME has been providing quality environmental education in the southeast for more than 20 years.

**Jim's Tank Service, LLC (510)**

..... jimstankservice.com
 Jim's Tank Service, LLC is celebrating 50 years of business. Services include Haz and Non-Haz transportation, emergency response (OSRO), industrial services, roll-off, oil recycling and wastewater treatment. We perform these services along with our sister companies, ATM Oil Co., Inc. an EPA

registered recycling facility and Wastewater Solutions, LLC, a permitted centralized waste water treatment plant.

K.S. Ware & Associates, LLC (519)

..... kswarelle.com
 K. S. Ware and Associates provides Geotechnical services, Environmental Consulting, Construction Engineering and Inspection, Special Inspections and Hazardous Materials consulting. We support to A/E firms in the Transportation (highways and airports), Federal and Municipal Agency market segments.

Kenvirons, Inc. (920)

..... kenvirons.com
 Kenvirons is a Civil and Environmental Consulting Firm located in Frankfort, KY. Specializing in Solid Waste design, permitting, CQA, surveying, environmental monitoring, air permitting and air emissions testing. Other areas of expertise are water treatment systems and distribution, wastewater treatment systems, Phase I & II site assessments and SWP3 & SPCC Plan preparation.

LaBella Associates-Joyce Engineering (411)

..... labellapc.com
 Since 1983, Joyce has specialized exclusively in responsibly serving the solid waste industry for both public and private clients through engineering, environmental consulting, planning, permitting, and operational consulting and training. This year, JOYCE became a wholly owned subsidiary of LaBella Associates, DPC. JOYCE remains intact, and we are now part of a larger organization with even greater capabilities and geographic reach to serve our clients.

LDA Engineering (730)

..... ldaengineering.com
 Through our vision of Learn. Design. Act., we provide planning, engineering, and geospatial information services helping communities develop solutions for infrastructure, public services, and environmental enhancements to build Stronger. Happier. Communities.

Lee-Smith, Inc (726)

..... lee-smith.com
 The Southeast's largest locally owned commercial truck dealer for international-Ford-Isuzu trucks.

Leidos (731)

..... leidos.com
 Leidos is a diversified consulting firm with offices across the country and throughout Tennessee (Oak Ridge, Hendersonville, Memphis and Livingston). Leidos routinely tackles some of our nation's biggest civil and environmental issues with a focus on cost effective customer support.

Leister Technologies (603)

..... leister.com
 Leister Technologies (www.leister.com) is the worldwide leader in plastic welding and hot air equipment. Our products include automatic welders, wedge welders, extrusion welders and testing tools – everything a geomembrane installer might need.

Liberty Tire Recycling (804)

..... libertytire.com
 Liberty Tire Recycling is the premier provider of tire recycling services in the U.S. By reclaiming more than 33% of the nation's discarded tires, Liberty Tire annually transforms more than 140 million tires into raw materials for smart, sustainable products that improve people's lives. Liberty Tire is a revolutionary American conservation enterprise – from whole tire to end product.

**Lighting Resources LLC (721)**

.....lightingresourcesinc.com
Recycler of Universal Waste Lamps, Batteries, E-Waste, Automotive Airbags/Seatbelts, and Mercury Containing Equipment. We also provide total

destruction via Shredding of sensitive material (hard drives, data holding devices, and OEM parts). Nationwide coverage with processing and service locations in Johnson City, Nashville, and Memphis, TN and Kennesaw, GA.

Lion Technology Inc. (110)

.....Lion.com
Lion Technology designs and delivers training to help industry professionals maintain compliance with Hazmat, Hazardous Waste, and Environmental Safety Regulations. Training includes classroom instruction; on-site programs; online courses; and live, instructor-led webinars. Every student receives access to expert instructors, online regulation updates, exclusive resources, and more.

Lipscomb University (821)

.....sustainability.lipscomb.edu
The Southeast's first comprehensive undergraduate and graduate program in sustainability, we equip leaders with business, natural and social science skills to create lasting solutions to modern environmental challenges. The Institute offers an MS in Sustainability (16 months), a Certificate of Graduate Studies in Sustainability (6 months), and Dual MS/MBA degrees (2 years)- on campus and online options available.

Lord and Winter (815)

.....lordandwinter.com
Lord and Winter is a team of professional environmental scientists serving in the mining, commercial/industrial development, and utility marketplaces by providing environmental permitting, environmental compliance, and environmental remediation services.

Marion Environmental, Inc. (918)

.....marionenv.com
Marion Environmental, a full service environmental company, with offices in Chattanooga, Knoxville, Nashville, and Tri-Cities, TN, and in Dalton, Atlanta, Charlotte, and Birmingham. Marion's services include consulting, emergency response, industrial services, waste management, and transportation of hazardous and non-hazardous waste.

McCray Drilling, LLC (837)

.....mccraydrilling.com
Environmental Drilling and Direct Push Services

McNeilus Companies (429 - equipment 433)

.....mcneiluscompanies.com
McNeilus Truck & Manufacturing is an industry leader in refuse truck bodies. Our product lineup gives you more options for rear-, side- and front-loading vehicles that fit your needs. McNeilus CNG also leads the way in alternative fuel systems and custom installations, plus a full-range of services and system support.

Mobile Mini Tank & Pump Solutions (604)

.....www.mobilemini.com
Mobile Mini Tank and Pump Solutions are providers of temporary liquid and solid storage solutions, pumps, and filtration systems. We also offer Transportation Services for Non Hazardous liquid/solid materials or waste.

MTSU (720)

.....www.mtsu.edu/adcp
Custom College Degrees for Water Professionals. You can: Design your own custom degree program; Finish your degree quickly by getting credit for your certifications, training, and military experience; Complete your degree completely online. Call (615) 494-7714.

Municipal Equipment, Inc. (705)

.....municipalequipmentinc.com
Tennessee's new choice for refuse / recycling / compaction equipment from New Way, Galbreath, Marathon and Wastequip. Whether you want an automated side loader or on-site service - we've got the reach.

NorthStar Contracting Group, Inc. (426)

.....northstar.com

NorthStar is the world's most comprehensive environmental solutions company. Services include Environmental Assessment; Remediation and Restoration; Emergency and Disaster Response; Water Resource Management; Program and Project Management; Construction and Civil Engineering Services; and Asbestos Abatement, Demolition, and Facility Decommissioning.

Northstar Environmental Group, Inc. (308)

.....northstarenv.com
Northstar has focused our expertise on a core group of service lines selected to address the needs of our clients. Our core environmental service lines are: Due Diligence Services; Environmental Compliance; Stormwater Management; Site Remediation; Phase II Investigations; Drone Services; Brownfield Redevelopment Services.

Pace Analytical Services (729)

.....pacelabs.com
Pace provides environmental testing of inorganic, organic and radiochemistry capabilities—specializing in the analysis of trace level contaminants in air, water, wastewater, soil, biota and waste. Throughout our 38 year history, clients have benefited from our commitment to data quality, timely turnaround times, excellent service and fair pricing.

Parratt-Wolff, Inc. (129)

.....pwinc.com
Safe, reliable, good communications on the job site, innovative - all words our clients use to describe our field teams. Parratt-Wolff provides quality drilling, well rehabilitation and direct imaging services to all states on the East Coast.

Patriot Recycling (401)

.....patriotrecycling.co
Patriot Recycling Inc. is a completely modern state of the art tire processing and recycling facility. We are proud to take scrap tires and turn them into beneficial end use tire derived products for power generation and use in infrastructure while promoting solutions for a cleaner environment.

Perma-Fix Environmental Services, Inc. (831)

.....perma-fix.com
Perma-Fix Environmental Services, Inc. is a leading provider for the treatment, processing, and recycling of hazardous, non-hazardous, household hazardous, industrial, universal, medical/pharmaceutical, and radioactive wastes. Following local, state, and Federal regulations, we offer a variety of services including SGQ/CESQG collections, household hazardous waste mobile collections, fuels blending, and metals laden waste stabilization.

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PeroxyChem (809)

..... peroxychem.com/markets/environment/soil-and-groundwater

PeroxyChem's proven in situ chemical oxidation (ISCO), in situ chemical reduction (ISCR), and bioremediation technologies promote rapid and cost-effective treatment of a wide range of organic compounds and heavy metals. We have treated millions of liters of groundwater and more than ten million metric tons of impacted soils, sediments, and industrial process wastes.

Pine Environmental (233)

..... pine-environmental.com
Environmental Monitoring, NDT- RVI, CEMS, PPE Supplies

Plastic Fusion Fabricators, Inc. (823)

..... plasticfusion.com
Geosynthetics, pipes, fabrications, installation

PM Environmental (722)

..... pmenv.com
PM Environmental, Inc. has over 25 years of experience in consulting and managing a wide variety of environmental, engineering, industrial hygiene, energy and development projects. Services include Risk Reviews, Transaction Screens, Phase I & II Environmental Site Assessments, Property Condition Assessments, Brownfield Redevelopment, and Underground Storage Tank Management.

Pointmap CAD & GIS Services (518)

..... pointmap.com
POINTMAP provides CAD & GIS services that support environmental professionals. We manage your drafting and mapping details, so you can focus on higher billable tasks and more projects - for greater profitability. Extend your team by incorporating ours!

Pratt Industries (202)

..... prattindustries.com
Pratt Industries USA is the world's largest privately owned corrugated manufacturing company. Headquartered in Conyers, GA, we are a vertically integrated company with successful collection, processing and paper mill operations. Pratt consumes the paper derived from recycling programs and produces 100% recycled paper products at four modern mills here in the U.S.

Provectus Environmental (418)

..... provectusenvironmental.com
Provectus Environmental is a performance chemical provider to the soil and groundwater remediation industry. We specialize in the development and global commercialization of next-generation, synergistic in situ chemical reduction (ISCR), in situ chemical oxidation (ISCO), and bioremediation technologies. Our proprietary remedial technologies represent the safest, most effective, and most cost-efficient solutions available.

Questar Solutions (330)

..... questarusa.com
For over 25 years, Questar has been the leading single-source provider of UN rated Performance Oriented Packaging to the waste and industrial industry. Questar operates from 10 strategically located national warehouses to ensure our clients receive the highest level of service.

Ramboll (620)

..... ramboll.com
Ramboll is a leading engineering, design and consultancy company. Our globally recognized Environment & Health practice has earned a reputation for technical and scientific excellence, innovation and client service. We strive to achieve inspiring and exacting solutions that make a genuine difference to our clients, end-users and society at large.

Raven CLI (802)

..... ravenind.com
Raven is a vertically-integrated full-service solutions provider of targeted products for the geosynthetics industry as a world-class manufacturer of advanced geomembranes, and design-build custom fabrication. We incorporate the latest technology to develop sustainable solutions that directly address hazardous containment, and promote stewardship in cleanup and redevelopment of environmentally impaired sites.

Republic Services, Inc. (600)

..... republicservices.com

**RES (111)**

..... res.us
RES is the largest dedicated provider of ecological solutions in the United States, providing high-quality, client-centric solutions. In total, we have reduced 250+ tons of nutrients; restored 290+ miles of stream, 58,024 acres of wetlands, and 9,100 acres of species habitats; and planted over 14 million trees.

RKI Instruments, Inc. (521)

..... rkiinstruments.com
RKI Instruments is an innovative gas detection company offering portable and fixed systems gas detection instruments. RKI is showing the latest in VOC gas monitoring. The GX-6000 is a 6 gas portable detector with the capability of monitoring with 2 different PID sensors in one instrument including benzene specific mode.

Rockwood Recycling (810)

..... rockwoodrecycling.com
Rockwood recycling is a company that focuses on wood recycling, shingle recycling, and tire recycling. Rockwood also has expanded into contract grinding and working with gasification and waste-to-energy projects.

S&ME, Inc. (327)

..... smeinc.com
S&ME delivers common sense consulting services that create economic value for our clients. Our environmental professionals are focused on safely providing technically excellent services, governed by unquestioned integrity, and aimed at cost-effectively accomplishing our clients' objectives.

SEFA (502)

..... sefagroup.com
SEFA processes and markets environmentally sustainable products derived from fly ash for the concrete industry, recycling over 20 million tons of fly ash in the last 30 years. We are an integral part of some of the country's most successful coal ash recycling programs. SEFA is making a positive impact by cleaning up coal ash from ponds and removing it from the environment permanently.

SEMS, Inc. (710)

..... semsinc.net
Environmental Consulting and Industrial Services

Skytec LLC (423)

..... skytec.com
Skytec is an ISNetwork qualified, professional UAV company that provides data collection and analysis, data management, and consultation services. Our turn-key operation is available to professional service firms and site owners anywhere in the world.

Smith Gardner, Inc. (801)

..... smithgardnerinc.com
S+G is one of the nation's leading firms in the solid waste and environmental consulting industry. We incorporate our three 3R Strategy - Resource Management, Recovery and Remediation - to optimize life cycle project benefits and deliver cost-effective, innovative solutions.

SOLMAX-GSE (203)

..... solmax.com or gseworld.com
SOLMAX-GSE is a manufacturer of geosynthetic containment systems used in the waste management, mining, oil and gas, water and wastewater industries. Our HDPE-based products include geomembranes, geonets, geocomposites, GCLs, and geotextiles.

Southern Environmental Services (805)

..... southernenvironmentalservices.net
Environmental ER-Testing-Tank Removals

Specialty Earth Sciences, LLC (714)

..... sesciences.com
Specialty Earth Sciences, LLC is the developer of SOCORE: Sustained Oxidation and Controlled Oxidant Release Encapsulants. SOCORE technology provides long term (on the order of years) reactive zones for plume reduction as well as interception of migrating contaminant frontal boundaries. SOCORE is ideally suited for sites with active operations or low permeability soils.

Stantec (814)

..... stantec.com
At Stantec, our work—professional consulting in planning, engineering, architecture, interior design, landscape architecture, surveying, environmental sciences, project management, and project economics—begins at the intersection of community, creativity, and client relationships. Stantec makes a long-term commitment to the people and places we serve.

Stevens Environmental Consulting (229)

..... stevensenvironmental.com
Excellence in EHS services, providing value through strategies you can trust

Stringfellow Inc. (329 - equipment 333)

..... stringfellow.bz
Since 1934, Stringfellow, Inc. has provided Tennessee with the best refuse equipment available. HEIL, Gal-Fab, Pac-Mac, Toter... all to make collection and recycling more efficient and safer! Great Service, Great Equipment, and YOU! What a team!


SWS Environmental Services (503)

..... www.swses.com
SWS Environmental Services has over 30 years of experience with government and industry customers. **Emergency response**, industrial services, waste management, and remediation teams are available throughout the United States 24/7/365 through our Response Hotline - 877-742-4215

**TANA North America by HUMDINGER (718)**

..... humdingerequipment.com
Compactors - Shredders - Trommels - Compost Turners

tarpARMOR (332 - equipment 137)

..... tarparmor.com
 tarpARMOR TDS by Southwestern Sales, a higher form of protection: Save airspace; Protect your investment; Maximize tarp coverage; Minimize installation time; Improve performance in wind; High quality fabrics and construction; Patented technology.


Tarpomatic, Inc. (204)

..... tarpomatic.com
Tarpomatic manufactures an automatic tarping machine designed for deployment and retrieval of alternate daily cover tarps over the active working face of landfills. Our machines have proven the test of time and extreme conditions for over 20 years. We are the only company that employs a removable arbor system, so only one machine is needed for even the largest of landfills.

TDEC - Remediation (210)

..... tn.gov/environment/remediation
The Division of Remediation identifies and investigates hazardous substance sites, then uses practical and effective remedies to stabilize, remediate, contain, monitor and maintain these sites. These efforts minimize threats to public health, safety, and the environment.

TDEC Regulatory Staff (100-102)

..... tn.gov/environment
 TDEC's technical staff is on site and wants to meet you! Come by our booth to find just the right person to discuss your unique questions or comments and pick up your 100% recycled, Made in the USA conference tote bag, sponsored by our Office of Policy & Sustainable Practices.

TDEC Small Business Environmental Assistance Program (829)

..... tn.gov/environment/sbeap
The SBEAP is a non-regulatory program within TDEC. Its purpose is to provide free, confidential, technical environmental assistance to small businesses for all their environmental questions.

TDOT Highway Beautification Office (104)

..... nobodytrashestennessee.com
TDOT staff from the Highway Beautification Office is on site and wants to meet you! Come by our booth and see what we're doing to combat litter, from the Adopt-A-Highway Program to our new litter prevention campaign, Nobody Trashes Tennessee! Bring your questions and be sure to pick-up a free car litter bag, so that you can help us keep Tennessee roadways litter free!

TenCate Geosynthetics (704)

..... tencategeo.us
TenCate Geosynthetics is the global leader in geosynthetics. Our geogrids and geotextiles are engineered with advanced application knowledge to meet project specifications for transportation construction, mechanically stabilized earth, erosion control, and water and waste management.

Tennessee Tech University (108)

..... tntech.edu/is/ses/psm
Tennessee Tech's School of Environmental Studies

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Terracon (312)

.....terracon.com
Terracon provides practical solutions to environmental, facilities, geotechnical and materials engineering challenges. With more than 140 offices nationwide, we provide local expertise backed up by national resources to achieve project success on time and on budget.

Tersus Environmental (302)

.....tersusenv.com
Tersus Environmental researches, develops, and commercializes innovative soil and groundwater remediation solutions through university and professional relationships in order to meet the increasing technological demands at contaminated sites. Our proven technologies help our clients reduce uncertainty, minimize risks, and achieve cost-effective results.

TestAmerica Laboratories (415)

.....TestAmericainc.com
TestAmerica Laboratories, Inc. has developed an unprecedented combination of resources, experience and testing capabilities, with more than 2,000 industry professionals. TestAmerica focuses on refining methods that address current environmental issues and developing new solutions for challenges that the market and our clients anticipate facing in the future.

Tetra Tech (613)

.....tetrattech.com
Tetra Tech is a leading, global provider of consulting and engineering services. We are differentiated by Leading with Science® to provide innovative technical solutions to global commercial and government clients. With more than 16,000 associates worldwide, Tetra Tech provides clear solutions to complex problems.

The Peterbilt Store North Georgia (633 - equipment 632 & 637)

.....thepetestore.com
Peterbilt North American Dealer of the Year (2004 and 2016)
The Pete Store is network of Peterbilt truck dealerships spanning the Eastern US. Through our exclusive Peterbilt dealerships we offer sales of new and pre-owned trucks, truck parts, body shops, and truck service. The Pete Store is a respected dealer in the transportation industry with a track record for quality support.

Tioga Environmental Consultants, Inc (611)

.....tiogaenv.com
Tioga, based in Memphis, specializes in environmental regulatory compliance for manufacturing and industrial facilities; assessments such as Phase I, II, NEPA etc.; remediation (DCERP and UST Certified); hazardous building material assessments (lead, asbestos and other hazards); industrial hygiene and safety services and natural resource investigations (wetlands).

TIS Insurance Services, Inc. (827)

.....TISINS.com
Insurance Broker

**Titan Environmental USA (408)**

.....titanenviro.com
Titan Environmental USA specializes in prefabricated geomembranes for a variety of environmental containment projects. Working with a range of materials we

are your one-stop-shop for specialty product and custom panel fabrication. Contact us at 1-713-849-1311 or info@titanenviro.com

TN Recycling Coalition (812)

.....tennesseerecyclingcoalition.org
The Tennessee Recycling Coalition is a non-profit organization dedicated to promoting recycling and sustainable materials management practices in the state of Tennessee. TRC's annual conference will be held August 12-14, 2018 at Marriott's Franklin Cool Springs.

**State Parks****TN State Parks (103)**

.....tnstateparks.com
State Parks preserve and protect the unique natural, cultural and historic resources of our state. Learn more about Harrison Bay State Park, whose signature Jack Nicklaus designed Bear Trace golf course hosted the Show Golf Tournament on Tuesday!

TN Volunteer Chapter of SWANA (813)

.....swanachapters.org/tennessee
TN SWANA is a group of solid waste professionals who are committed to advancing the practice of economically and environmentally sound solid waste management in Tennessee.

TPM Group (106)

.....tpm-group.com
TPM Group is a full service environmental and emergency spill response contractor with offices located in Bowling Green, KY and Nashville, TN. Our personnel are strategically located to ensure a prompt response to service requests throughout the Southeastern United States. TPM also owns a fleet of vacuum trucks, operates a solidification facility in Auburn KY and performs stormwater quality BMP / SCM inspections, cleanings and restorations.

Tradebe Environmental Services (328)

.....tradebeusa.com
TRADEBE provides safe, quality, innovative environmental services that contribute to sustainable development and innovative solutions to ensure the appropriate assessment, treatment and elimination of wastes. As a global business dedicated to sustainable waste management, we seek the greenest waste solutions possible with a priority on recycling and recovery.

TriAD Environmental Consultants, Inc. (723)

.....triadenv.com
TriAD Environmental Consultants, Inc., provides innovative, cost-effective solutions to environmental problems. Our expertise includes solid/hazardous waste management, RCRA/CERCLA permitting/remediation, hydrogeologic investigations, storm water management, hydrologic determinations, compliance assistance, SPCC Plan preparation, and environmental assessments.

Tricon Precast LTD (309)

.....triconprecast.com
Precast Concrete Manufacturer

Tri-State Drilling - Chattanooga (621)

.....TSDrilling.com
A small business providing professional drilling services based in Chattanooga TN. (Nashville & Knoxville) Providing services in southeastern United States. Services include Geotechnical, Environmental, Mineral Investigation and Water Resources. Services in a Safe and Timely Manner.

TTL, Inc. (205)

.....ttlusa.com
For more than 50 years, TTL's staff of over 350 technical and professional personnel across seven different offices has worked with clients nationwide. We currently serve the following markets: Analytical Lab Testing, Construction Materials Testing, Industrial, Energy, Transportation, Geotechnical Engineering, Environmental Consulting and Civil Engineering Design.

UA SafeState (712)

..... alabamasafestate.ua.edu

UA SafeState Environmental Programs provides environmental training, compliance assistance, and sustainability support for industrial, commercial, residential and municipal environments.

US Ecology (719)

..... usecology.com

US Ecology is a leading provider of environmental service offering treatment, disposal and recycling of hazardous and radioactive waste, and complementary field and industrial services. For over 63 years, US Ecology has provided hazardous and non-hazardous waste treatment, RCRA/TSCA disposal. Services include ER, industrial cleaning, lab packing, remediation and transportation.

Valicor Environmental Services, LLC (209)

..... valicor.com

Industrial Waste Water Treatment & Oil Recycling

Vapor Pin Enterprises, Inc. (319)

..... Vaporpin.com

The Vapor Pin® is a unique, patented, re-usable sampling device, and has a variety of applications, including sub-slab soil-gas sampling, de-pressurization studies/testing, stray gas evaluations, source area characterization, Pilot testing and mitigation progress monitoring. The Vapor Pin® allows you to collect quality, low-cost samples within minutes. Plus, it's made in the USA.

Veolia (421)

..... veoliaes.com

Environmental Company

Waste Connections of Tennessee, Inc. (922)

..... wcnx.org

Waste Connections of Tennessee, Inc. is a fully integrated solid waste services company. We service commercial, industrial and residential trash and recycling customers, operating Class I landfills and transfer stations.

Waste Industries (402)

..... wasteindustries.com

Waste Industries maintains an industry-leading approach to sustainable waste practices through efficient management of its resources and early adoption of technology. Through technologies such as our compressed natural gas fleets, our state of the art Diesel Hydraulic-Hybrid vehicles, and our gas to energy facilities at our Sampson County landfill, Waste Industries holds true to its mission of ongoing sustainable efforts in local communities.

Waste Management (523-622)

..... wm.com

Waste Management is the leading provider of comprehensive waste management and environmental services in North America, serving residential, commercial, industrial, and municipal customers. We offer a broad portfolio of environmental solutions. Our subsidiaries provide collection, transfer, recycling and resource recovery, and disposal services, and we are a leading developer, operator and owner of landfill gas-to-energy facilities in the US.

Watershed Geo (113-212)

..... watershedgeo.com

Watershed Geo is a geosynthetics company specializing in erosion control, soil stabilization and waste containment technologies that are sustainable, low-cost and engineered to handle extreme weather. Watershed's products include ClosureTurf®, a final landfill closure system, VersaCap®, an intermediate landfill cover and HydroTurf®, an engineered revetment armoring system for storm water applications.

Waypoint Analytical (623)

..... waypointanalytical.com

Waypoint Analytical believes scientifically sound, legally defensible analytical data is the most critical element for the success of an environmental project. We provide a superior standard of service, operate with an unwavering commitment to quality and our clients, provide services that follow the entire life cycle of a project, and utilize the latest and best technology for each project

WestRock (501)

..... www.westrock.com/recycling

WestRock Recycling & Waste Services is one of the largest integrated recyclers and non-landfill based waste consolidators in North America. We offer our customers solutions for their waste and recycling needs through customized programs dedicated to meeting sustainability goals, increasing recycling rates and decreasing waste costs.

WISE (230)

WISE is an affinity group comprised primarily of women with science or engineering degrees, or working in science or engineering positions. Our focus is to provide mentoring and networking opportunities for women with degrees or positions in science or engineering and to impact the awareness of young women and girls regarding science and engineering as professions.

Wood Environment & Infrastructure Solutions (619)

..... woodplc.com

Wood is a global leader in the delivery of project, engineering and technical services to energy and industrial markets. We operate in more than 60 countries employing around 55,000 people. We provide performance-driven solutions throughout the asset life-cycle, from concept to decommissioning across a broad range of industrial markets.

Worldwide Equipment INC (803)

..... thetruckpeople.com

Our municipal specialists can provide trucks for all applications. Mack, Volvo, Kenworth, and Hino chassis are available. Exclusive NJPA financing! Make sure to ask about our Municipal Rotation Auction Program! Let us help you write your specs!

Worobey Transport Inc. (WTI) (839 - equipment 641)

..... wti-tank.com

WTI offers a wide range of rental equipment for the environmental services sector. Frac tanks, sealed rollofs, vacuum boxes, and dewatering boxes are a few of the products we offer to insure our client's success.

Wright Brothers Contracting, Inc. (427)

..... wbcci.com



WRIGHT BROTHERS
CONSTRUCTION COMPANY, INC.

Over the past thirty years Wright Brothers has been constructing landfills for both private owners and public municipalities. We understand the standards and specialized grading techniques that are required to construct landfills. Wright Brothers has proven time and time again that we can deliver a quality product while exceeding our client's expectations.

Wednesday AM

Wednesday PM

Thursday AM

Thursday PM

Friday

Exhibitors

Save the Date!

The Show of the South returns to Chattanooga May 15-17, 2019



Tennessee Department of Environment
and Conservation, Authorization No.
327045, May 2018, 1000 copies. This public
document was promulgated at the cost of
\$2.88 per copy.